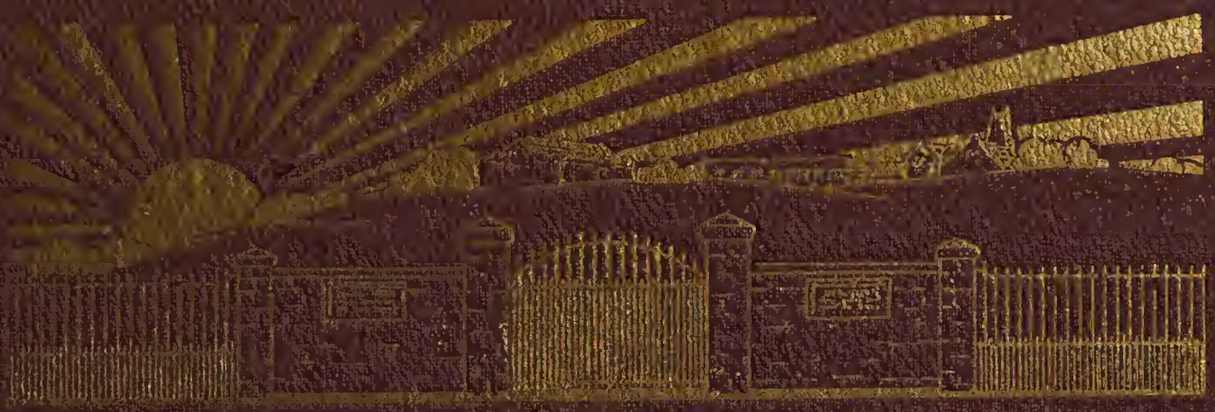
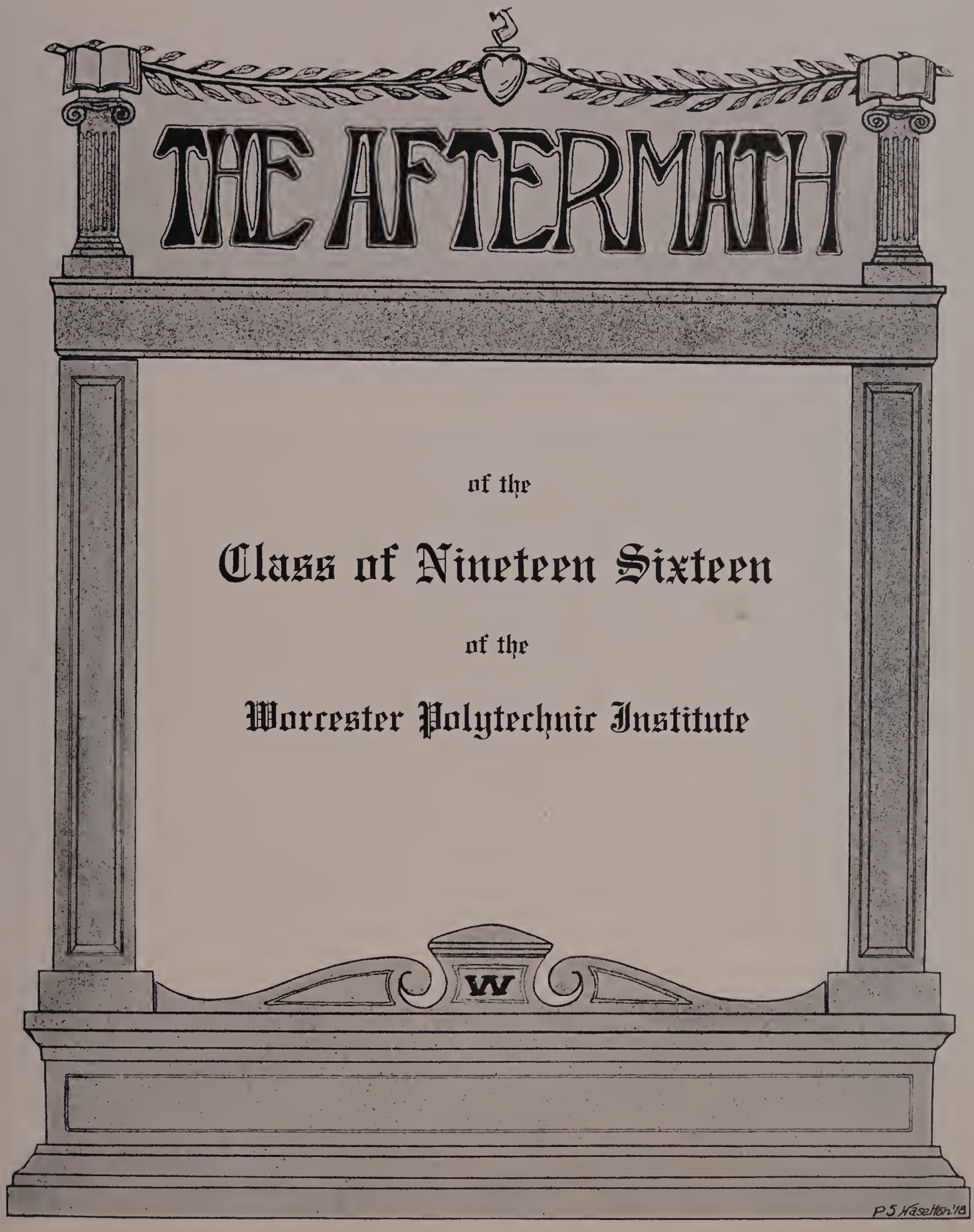


AFTERMATH

~1916


THE AFTERMATH
of the
Class of Nineteen Sixteen
of the
Worcester Polytechnic Institute
W
P S Haselton '18

1916 · AFTERMATH · 1916

The Aftermath

Worcester Polytechnic Institute

Volume Twenty-six

Nineteen Hundred and Sixteen

Edited by the

Nineteen Sixteen Aftermath Board

1916 · AFTERMATH · 1916



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To the

Honorable Charles Grenfill Washburn, '75

President of the Corporation

Gifted Jurist, Eloquent Speaker, Philanthropist

and Loyal Alumnus

The Class of Nineteen Sixteen is Honored in

Dedicating this Volume of

The Aftermath

Charles Grenfill Washburn

CHARLES GRENFILL WASHBURN was born in the city of Worcester on the twenty-eighth of January, fifty-nine years ago. After a preliminary training in the city schools, he entered Tech with the Class of '75, being enrolled as a Mechanical Engineer. Believing that a real education should consist of an academic training as well as a technical one, Mr. Washburn entered Harvard soon after his graduation from W. P. I., and in 1880 received his degree of A.B. from that university.

The study of law then received his attention, and he was admitted to the Suffolk County Bar in 1887.

From the very first of his schooling, Mr. Washburn took a very great interest in all kinds of political questions. His wide and thorough education had fitted him excellently for a political life, and in 1897-1898 he was found a member of the Massachusetts House of Representatives. Here his ability was early recognized by his constituents, and the following two years he occupied a seat in the Senate. In 1902 he was appointed a member of the committee which was to revise the Corporation Laws of Massachusetts, a position which required men with extensive knowledge of the law, coupled with broad-mindedness.

In the Presidential campaign of 1904, Mr. Washburn was a delegate to the National Republican Convention, and after its termination was placed on the committee to notify Theodore Roosevelt of his nomination.

When Senator Hoar's death left a vacancy in the Third Massachusetts District in Congress, it was but natural that Mr. Washburn should be selected to fill out the term. At the following election he was sent back to Washington for the Sixtieth Congress in the years 1907-09.

It is not, however, as a politician that we know him best, but as an ever loyal Alumnus of Old Worcester Tech. Whenever a mass meeting of any proportion was to be held, the mere mention that Mr. Charles Washburn was to be the speaker was proof that the E. E. Hall would be filled to its limit. His stately figure and eloquent voice were always such as to hold the attention of every man present.

Mr. Washburn has lent his assistance to any and every function of Tech from the Washburn-Hurrey series of talks for the benefit of the Y. M. C. A., to the Tech Show, and all that he has done has been with seeming pleasure and a willingness that speaks for the kind heart in the man himself.

It was mainly through the efforts of Mr. Washburn that the State Legislature in 1912 granted the annual appropriation to the Institute of $50,000 for five years, with a provision that if by that time $350,000 more had been received, the appropriation would be continued for five more years. The receipt of this sum has enabled the trustees to improve and enlarge the Institute buildings and equipment so that its condition was never better than at the present time.

Not content with his labors in obtaining this grant, it was due in a large measure to his generosity that the Institute will continue to receive it for the next five years. Up until November, 1915, the Institute had received bequests to the value of $320,000, and to make up the required amount Mr. Washburn donated $50,000, to be known as the "Charles Francis Washburn Fund," in honor of his father and his son, who bore the same name.

These are but a few instances which have shown the character and philanthropy of the man to whom the Class of 1916 has dedicated their year-book. Mr. Washburn's deeds are many, but few of them are ever brought to our attention because of his distaste for certain kinds of publicity.

He has seen much of the world while we are just starting out, but if, in our years to come, we are enabled to even approach the good he has done, our lives, indeed, will have been well spent.

Mr. Washburn, the Class of 1916 wishes you the very best of the good things in life in the many happy years still before you.



HON. CHARLES G. WASHBURN

At Dedication of Alumni Gates

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Editorial

DEAR FRIEND, you are about to contemplate the work of the 1916 AFTERMATH Board. It is with full knowledge of the fact that your mind is ever critical that we present our completed task before you. We do not ask mercy; we do not ask that your criticisms be softened; of excuses, there are none. The completion of the class book was placed in our hands, in confidence. Always have we kept this in mind, and now, as the last line goes to press, we trust that the confidence has not been misplaced. Our trials and tribulations have been many, but if, as you scan the pages, you are able to secure those glimpses into the life history of our class and its members, which we have endeavored to picture for you, we shall feel that we have been amply repaid for all our labor.

Corporation

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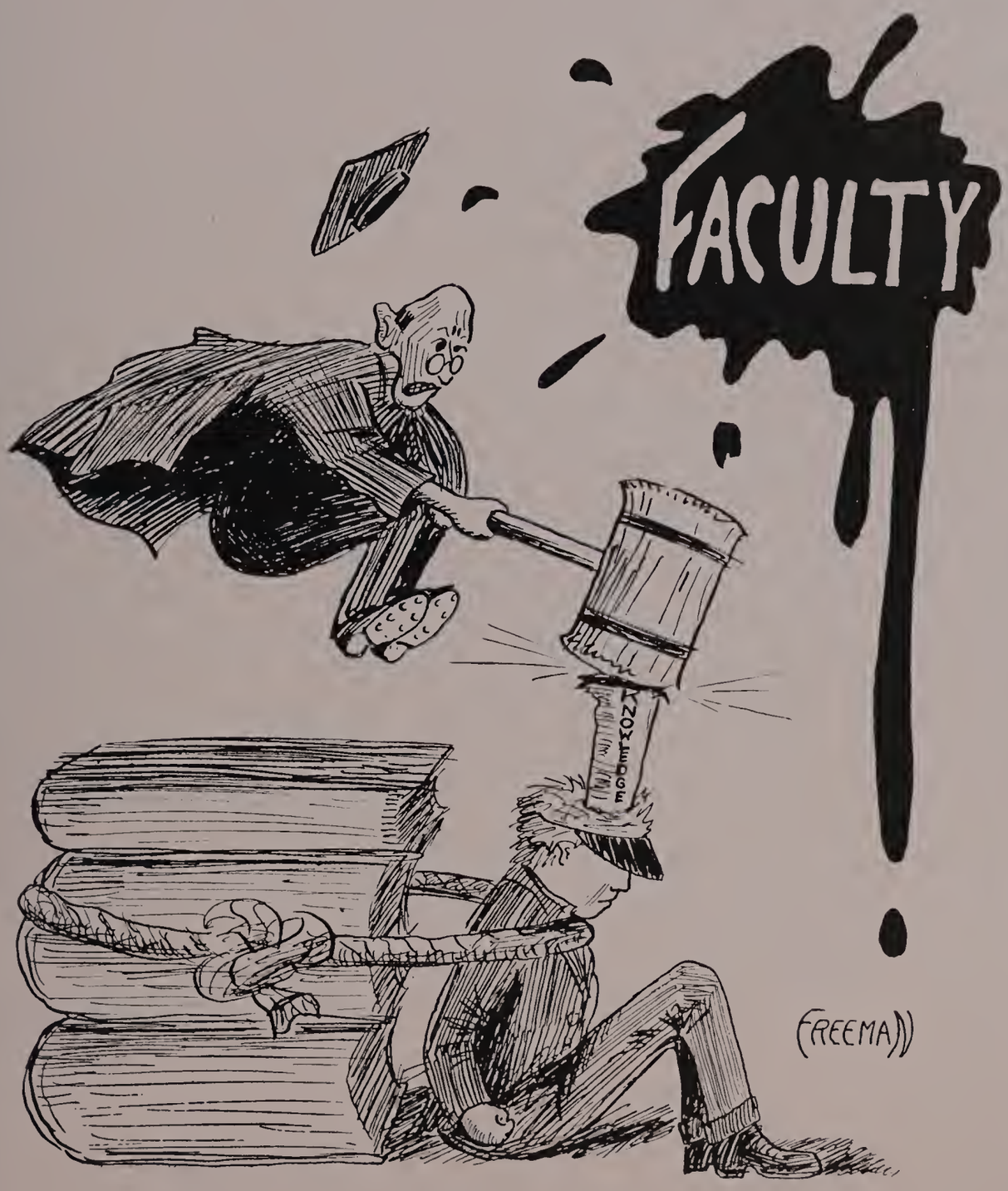
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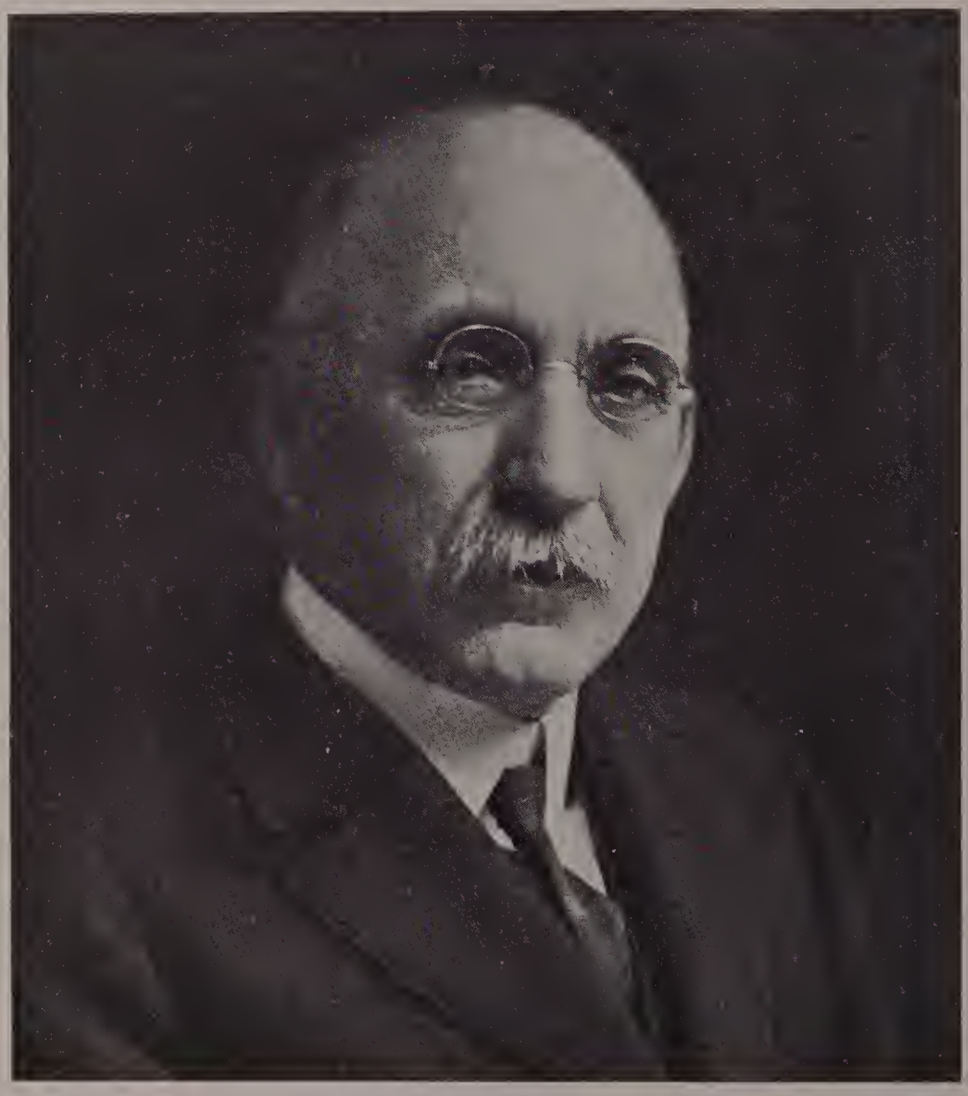
ON THE PART OF THE STATE BOARD OF EDUCATION
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HIS HONOR THE MAYOR, GEORGE M. WRIGHT

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PRESIDENT IRA N. HOLLIS

Ira Nelson Hollis

PRESIDENT OF THE INSTITUTE

U. S. Naval Academy, 1878; A. M. (Honorary), Harvard, 1899; L. H. D., Union, 1899; D. Sc., University of Pittsburgh, 1912; Professor of Engineering, Harvard, 1893-1913; President of Worcester Polytechnic Institute, 1913—

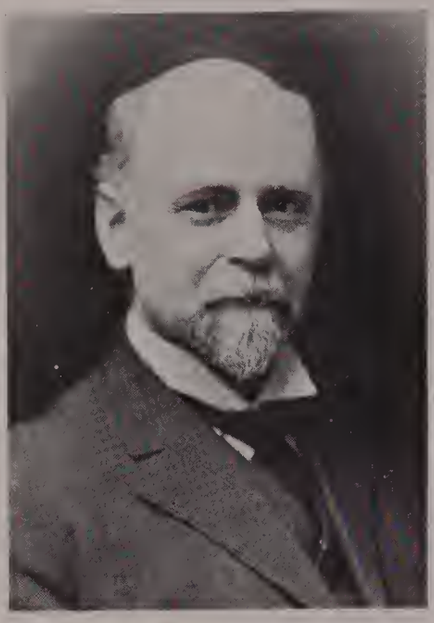
Our first year at Worcester Tech had passed before Doctor Hollis came from Harvard, where he had held the Professorship of Engineering, to act as President of the Institute. At that time we were naturally curious as to the type of man we would find him to be. From the very first, however, all the reports seemed to be in his favor. Such newspaper editorials as "Harvard's Loss is Worcester's Gain" and "Naval Authority to be Worcester Tech's Head," prepared the way for his coming and caused us to realize that we were to become intimately acquainted with a man who had seen Life in every corner of the globe, who had already given up a great amount of time to the teaching of Engineering, and one whose departure from Cambridge left a distinct gap there, which could be filled only with the greatest difficulty, if at all.

It was not long after his arrival before we learned that the Office was to be a place of terror no longer, but was to be a place where our difficulties could be cleared up. We had only to state the extent of these troubles and "Prexy" could immediately find a way out of them.

Through his energy, a change was made in the attitude of the upper classmen toward the Freshmen. Class rushes were abolished; Freshman rules were toned down, and many other changes made to increase the kindly feeling between classes.

During the last three years "Prexy" has lent his assistance to every worthy project called to his attention. In his heart he has had the welfare of every student; a kindly word of encouragement to the disheartened, or a well-meant reproof to the backward student was all that was necessary to point out the way he should go.

We shall not soon forget the Sunday afternoon "at homes" of Doctor and Mrs. Hollis, where students and faculty were brought together, each to learn something of the attitude of the other. We feel, as a Class, that we will go out in the world to be better Engineers and citizens for having come in contact with a man of the calibre and character of "Prexy" Hollis.



LEVI LEONARD CONANT

John E. Sinclair Professor of Mathematics

A. B., Dartmouth, 1879, and A. M., 1887; Ph. D., Syracuse, 1893; Professor of Mathematics, Dakota School of Mines, 1887-90; Assistant Professor of Mathematics, W. P. I., 1891-92; Associate Professor, 1892-99; Professor, 1899- ; Acting President, 1911-13.

Despite his reticent nature, "Conie" has earned the right to add quite a little alphabet after his name. Our first class-room impression was that we had a terribly fussy "prof" on our hands, for we found that we were expected to have ALL of our previous knowledge at our tongue's end. But even when this quiet spoken gentleman was making very evident one's entire ignorance of even the rudiments of the English language and when the rest of the class was in spasms (at what they had escaped), one found it absolutely impossible to take the slightest offence. And so we came to look forward to the "Calc" period almost with joy.



ZELOTES WOOD COOMBS, A. M.

Professor of English and Secretary of the Faculty

A. B., Amherst, 1888, and A. M., 1895; Instructor in English, Brooklyn Polytechnic Institute, 1888-89; University of Virginia, 1889-90; Clerk and Assistant in Languages, W. P. I., 1891-92; Instructor in Modern Languages, 1892-95; Assistant Professor, 1895-1901; Professor of French, 1901-03; Modern Languages, 1903-13; Professor of English and Secretary of the Faculty, 1913- .

All of us remember that morning back in September, 1912, when our class was assembled in the "Libe" for registration, and the two stately men who started us off on our journey of education. To us, the little man in the black coat was the President, while the tall, straight, Van Dyked gentleman was a clerk of something or other.

However, it was not long before our ideas were shifted around and we came to know "Zelotes" as our English "prof." With all his varied accomplishments as an athlete, killer-of-bugs a la Prince Albert, Wachusett hiker, queller of class-riots, etc., etc., the characteristic which remains nearest to us was his ability to distinguish between a fellow's real voice and one from his empty seat. "Coombsie" was seldom fooled, to our discomfort and his satisfaction.

GEORGE HENRY HAYNES

Professor of Economics and Political Science

A. B., Amherst, 1887; Ph. D., Johns Hopkins, 1893; Instructor in Modern Languages, W. P. I., 1887-88; Mathematics, 1888-89; Modern Languages, 1889-90; Professor of Economics and Political Science, 1893- .



Professor Haynes to some, probably "George" to others and possibly even "Henry" to still others, but to us he always was and always will be just "Jinny." "Jinny's" task is far from being an easy one. We thought we came here to learn engineering and when we were told that we would never succeed by engineering alone, we smiled knowingly and refused to be worried by the great political and industrial problems of the world. But that was before we knew "Jinny." It was he that showed us that nothing big is accomplished in this world without contact at one point or another with these problems. He took hold of us when we were absorbed (?) in the big problem of engineering and showed us that the field of engineering is not the big battlefield of life. To him we owe, not so much what we learned about economics, poly sci and business law, but rather the awakening and stimulating of an interest in the problems of civilized society.

HAROLD BABBITT SMITH

Professor of Electrical Engineering

M. E., Cornell, 1891; Adjunct Professor of Electrical Engineering, Arkansas State University, 1892-93; Professor of Electrical Engineering, Purdue, 1893-96; W. P. I., 1896- .



"H. B." has had much and varied experience both in teaching and in practice. Only the Electrics have the pleasure of meeting this interesting man. And the Senior Electrics can attest that he is even more interesting in his home than in the class-room. It is a delight to watch the twinkle in his eyes when he tells you, in his own quiet way, some little humorous happening. In his design lectures he stimulated our interest (which was entirely unnecessary), and he brought us all almost to the verge of despair by considering us as shorthand experts. However, this cannot be held against him, since none of us ever had the courage to confess our shortcomings in that regard. He takes a direct interest in the welfare of every student in his department, not only through his college days, but afterwards, and this man-to-man attitude makes him a friend of all who come in contact with him.

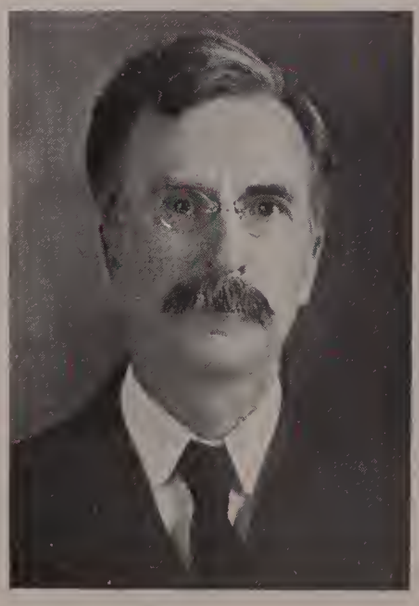


WALTER LOUIS JENNINGS

Professor of Organic Chemistry

A. B., Harvard, 1889; A. M., 1890, and Ph. D., 1892; Assistant in Chemistry, Harvard, 1890-92; Parker Fellow at University of Berlin, 1893-94; Assistant Professor of Chemistry, W. P. I., 1894-99; Professor of Organic Chemistry, 1900- .

If there is any one of Dr. Jennings' many nicknames which fits him better than the others, it is "the Kaiser." One does not have to be long in the Chemistry Department to learn who is in authority there. Although Dr. Jennings bears the responsibilities of the head of the department, there is no one who takes a more personal interest in the men under him. In the laboratory he is always free with criticism and ready with suggestions, trying to develop in the men a degree of accuracy and deftness of manipulation such as he himself possesses. By those outside the department, Dr. Jennings will be longest remembered for his hobbies for bicycle riding and tennis playing, but by those who have studied under him, "Beiley" will be remembered for his interesting lectures, his personal interest in the men and for being a good mixer at Chem. Club meetings, on the New York trip, and at the dinner, at which he entertained so royally.



ALEXANDER WILMER DUFF

Professor of Physics

B. A., University of New Brunswick, 1884, and University of London, 1887; M. A., University of Edinburgh, 1888, B. Sc., 1892, and D. Sc., 1901; Professor of Physics, University of Madras, 1889-90; University of New Brunswick, 1890-93; Purdue, 1893-99; W. P. I., 1899- .

It will probably never be known whether Dr. Duff went abroad in our Sophomore year in order to escape the terrors of teaching Physics to 1916, or to be in Germany when the cannon-balls commenced to soar, that he might measure their gravitational constant. At any rate he left us and studied for awhile at the University of Berlin, from which place he returned to the U. S. with difficulty at the outbreak of hostilities.

Dr. Duff is revered by the students as an instructor of Physics, and they honor him for his many achievements in that science—not the least among which is his book now used as a textbook by many colleges.

WILLIAM WARREN BIRD

Professor of Mechanical Engineering, and Director of the Washburn Shops

B. S., W. P. I. 1887; Instructor in Mechanical Engineering, W. P. I., 1887-91; Assistant Professor of Steam Engineering, 1894-96; Professor of Mechanical Engineering and Director of the Washburn Shops, 1903- .



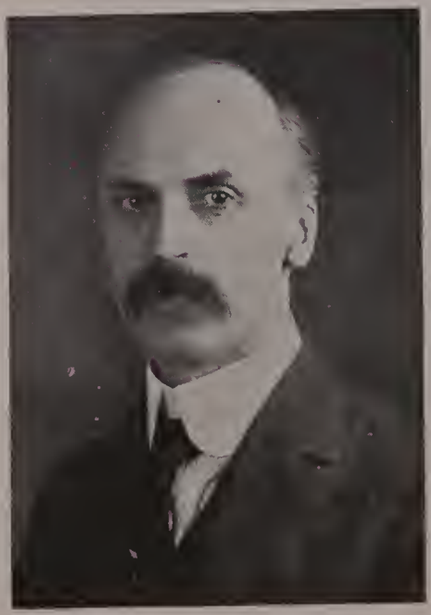
When the summer vacation arrives the most of us are thinking of the good times and the healthy coat of tan we will put on. Not so with the Mechanics' friend, "Piggy" Bird. He knew well that a coat of tan would not help out his looks, so he put forth his best efforts and raised a really commendable (we don't know the correct name for it, but anyway it's on his chin).

Even though the presence of this thing gives him a more stately appearance, the man himself has not changed. He still brings that well-worn note book to Dynamics with him; he still springs a few good jokes, and the classes still appreciate his attempts to take the monotony out of recitations.

ARTHUR WILLARD FRENCH

Professor of Civil Engineering

C. E., Dartmouth, 1892; Associate Professor of Civil Engineering, Dartmouth, 1895-98; Professor, W. P. I., 1899- .



The Idol of all Civils, but the "jinx" of the Sanitary Civils! "Pa" holds sway over Boynton Hall as no king of old ever dared to, and no one disputes him or even asks why. "Before you come to Tech you hear of 'Pa,' but doubt him; while you are here at Tech you know him and 'cuss' him; and after you leave Tech you think of him and admire him." This is the description which a Civil gives as best fitting the man who moulded out the course at the Institute, which makes or breaks students in their mad rush to become engineers in the short course of four years.

"Pa" is an all-around engineer and his common sense and judgment have had their influence in directing engineering projects from the Arctics to the Equator.



ORIE WILLIAM LONG

Professor of Modern Languages

A. B., Centre College, 1903; A. M., Harvard, 1911, and Ph. D., 1913; Professor of Modern Languages, Add-Ran College, 1906-10; Instructor in German, M. I. T., 1912-13; Professor of Modern Languages, W. P. I., 1913- .

We came to know "Doc" as sophomores, when he arrived at the Institute as head of the Modern Languages Department and started to take the kinks out of the French and German courses. That first semester showed us that our new member of the faculty was indeed a man of action, and it required hours of extra plugging to even "hang on," as we sometimes expressed a bare 60 per cent. In these three years, however, we have become acquainted with "Doc" as well, if not better, than most of the members of the faculty, and we predict that his influence at Tech, not only with the undergraduates, but also with the alumni, will see our Alma Mater ranking high in college athletics in a very few years.



ALTON LINCOLN SMITH

Professor of Drawing and Machine Design

B. S., W. P. I., 1890, and M. S., 1899; Assistant in Mechanical Engineering Laboratory, W. P. I., 1890-91; Instructor in Mechanical Drawing, 1891-1900; Assistant Professor of Drawing and Machine Design, 1900-06; Professor, 1906- .

Some of us made the acquaintance of "Ding" in our Freshman year when we were summoned to his office on "errands of mercy," and we found that beneath that mask of severity lay a sympathetic heart, one that could understand all the trials and tribulations of a Tech man, since he had been through the mill himself.

His "Technical Sketching" helped us over the sharp places in Mechanical and Freehand Drawing, and later his lucid descriptions of the most intricate of double-back, triple-action mechanisms, elliptical gears and quick-return motions made a really interesting course out of Kinematics.

His ability as a designer of machinery is known far and wide, but the best expression of it was given by a Senior Mechanic: "If you describe a mechanism to 'Ding' and he hasn't ever heard of it, it's a cinch there ain't no such thing."

ARTHUR DEXTER BUTTERFIELD

Professor of Mathematics and Geodesy



B. S., W. P. I., 1893, and M. S., 1898; A. M., Columbia, 1904; Assistant in Civil Engineering, W. P. I., 1894-98; Instructor in Mathematics, University of Vermont, 1898-1900; Assistant Professor, 1900-04; Professor of Mechanics and Mathematics, 1904-08; Assistant Professor of Mathematics, W. P. I., 1908-10; Professor, 1910-14; Professor of Mathematics and Geodesy, 1914- .

Some Tech men complete their four years without meeting certain members of the faculty in any way. This should never apply to the subject of this sketch. In our "Fresh" year there were rumors afloat on the air that we were to have a gym and that Butterfield was going to get it for us. Because a gym had for years been only a dream we were skeptical, and immediately made it a point to see the man in question. We did, and found that here was a man after our own heart, a Tech grad, an athlete of much renown, a man who could and did and was glad to meet the students on their own level.

ARTHUR WOOLSEY EWELL

Professor of Physics



A. B., Yale, 1897, and Ph. D., 1899; Assistant in Physics, Yale, 1897-99; Instructor, W. P. I., 1900-04; Assistant Professor, 1904-10; Professor, 1910- .

In our Sophomore year Dr. Duff decided that he needed a rest from his arduous duties in the Physics Department, and went abroad. His absence gave all of us an opportunity to make the acquaintance of "Punk," since it was he who now had to bear the burden of delivering the Physics Lectures, a task which required almost superhuman skill to perform successfully, owing to the eccentricities of the apparatus, as well as those of his assistant.

But what cared we if all the experiments were not very illuminating in the results obtained; it certainly was not due to "Punk's" energies. We always accepted his statement that he was sorry, "but it worked all right before the lecture," as a necessary part of the game.



ALBERT SUTTON RICHEY

Professor of Electric Railway Engineering

B. M. E., Purdue, 1894, and E. E., 1908; Assistant Professor of Electric Railway Engineering, W. P. I., 1905-07; Professor, 1907- .

Professor Richey graduated from Purdue in 1894 while Prof. Smith was head of the Electrical Department there. He at once went into railway work and has been in it ever since. And now the greater part of his time is taken up with his consulting engineering practice. However, he faithfully reserves a few hours each week to pass on a portion of his accumulated knowledge. His enigmatic facial expression has us all guessing, and the day after an exam we were never able to decide whether he was pleased with our written appreciation of his efforts or not.

Prof. Richey has recently compiled an "Electric Railway Handbook," which has received commendable reviews from the highest authorities in Railway Engineering.



CHARLES METCALF ALLEN

Professor of Hydraulic Engineering

B. S., W. P. I., 1894, and M. S., 1899; Instructor in Mechanical Engineering, 1894-1902; Assistant Professor of Experimental Engineering, 1902-06; Professor, 1906-09; Professor of Hydraulic Engineering, 1909- .

At four and a half minutes past ten, the sturdy figure of a middle-aged man, with iron-gray hair and a "Gibson" jaw, strode lazily down the line to the tune of "On the Old Fall River Line" bursting lustily from the throats of forty hilarious Mechanics, hilarious because they knew this would be an hour of rest and that "Charlie" would do all the talking. The hero of our story turned at the end of the aisle, and after placing his volume of Merriman, with its bright red binding, upon the desk, he proceeded to make himself comfortable in the low-backed chair, tilted back against the wall.

"Any questions?" A short period of silence, then—"If you haven't any questions, then I'll ask some." This was the signal for the end of the opening ritual and the meeting was then thrown open for discussion.

HOWARD CHAPIN IVES

Professor of Railroad Engineering

Ph. B., Yale, 1898, and C. E., 1900; Instructor in Civil Engineering, W. P. I., 1900-03; Assistant Professor, University of Pennsylvania, 1903-06; Assistant Professor of Railroad Engineering, W. P. I., 1906-12; Professor, 1912- .

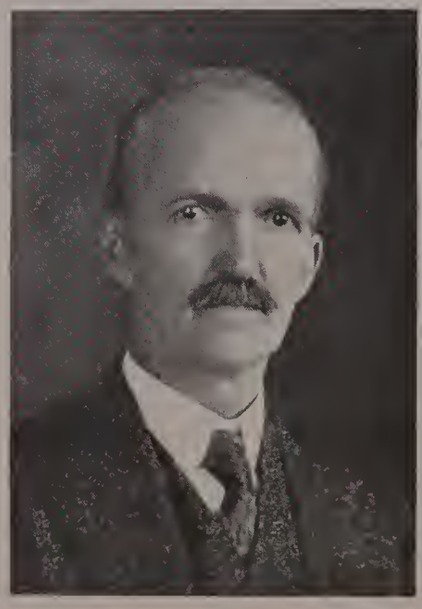


Cedar 2376?—Yes, please.—Hello, may I speak with Mr. M——?—Hello, is that you, George?—What's the lesson in water supply?—You didn't bother to take it down. Well, I thought that I might look it over, but I guess that I will not bother with it.—Oh, Reddy'll probably tell us how he put a bridge across the Gulf of Mexico for the Acheson.—I don't know but I have always suspected that it was rear chainman, or something like that.—There is no use in asking him that, he will just "look the matter up before the next recitation."—He does seem to get away with a great deal when it comes to writing books.—Oh, you must have been reading the write-up in the *Tech News*. You ought to have seen what the *Engineering Record* said about that book.—Yes, it's too bad we can't run that department.—All right, good bye.

JOSEPH OLIVER PHELON

Professor of Electrical Engineering

B. S., W. P. I., 1887, and B. S., (Electrical Engineering), 1890; M. M. E., Cornell, 1901; Instructor in Physics, W. P. I., 1887-96; Electrical Engineering, 1896-1900; Fellow, Cornell University, 1900-01; Assistant Professor of Electrical Engineering, W. P. I., 1901-07; Professor, 1907- .



Just plain "Joe" Phelon, Country Gentleman. Now that we know Prof. Phelon we are wondering how he ever happened to take up Electrical Engineering when he would have been *so* happy as a farmer. To any observer it is easily seen that "Joe" would fit into a rural picture without a make-up—and even without the Ford. How natural he would look leaning up against a dividing line fence with a straw between his teeth, swapping stories, by Heck! with old Ebenezer Drawback, his neighbor. Then he would never be bothered with that one rubber stamp of his which has been the Waterloo of countless Tech men. Yellow exam papers, "finals" and all such trash would be forgotten and, we think, "Joe" would be happy.



JOHN HARLAND NELSON

Professor of Applied Mechanics

B. S., South Dakota State College, 1905; M. S., University of Illinois, 1909; Instructor in Mathematics, South Dakota State College, 1903-08; University Fellow, University of Illinois, 1908-09; Assistant Professor of Applied Mechanics, Case, 1909-12; Professor, W. P. I., 1912- .

It "strains" and it "stresses" us to say our au revoir to this member of the Mechanical Dept., but in our au revoir there is not a single "impooity" and all we say is sincere.

In our Junior year, Prof. Nelson, whose sobriquet has somehow come to be "Hungry John" (we know not how or even why), left us for a short stay at the Bureau of Standards in Washington. There he was busy on the calibration of their huge testing machines, on which he is an expert. After going to the Watertown Arsenal and testing their machine there he returned to Worcester and resumed his work in "Matscon," or rather the "Materials of Construction."



FREDERIC BONNET, JR.

Professor of Chemistry

B. S., Washington University, 1899; M. S., Harvard, 1902, and Ph. D., 1903; Assistant in Chemistry, Harvard, 1899-1903; Instructor in Chemistry, State University of Iowa, 1903-04; W. P. I., 1904-09; Assistant Professor, 1909-12; Professor, 1913- .

Frederic Bonnet, Jr., Professor of Chemistry, is the way his name appears in the catalogue, but to us he has been known as "Doc" Bonnet ever since we met him in Freshman Chemistry. "Doc" started right out in the beginning to get a string of letters after his name, the first ones being "Jr." In 1899 he acquired a "B. S." at Washington University; in 1902 an "M. S." at Harvard, and in 1903 he received a "Ph. D." (which accounts for the nickname). The only letters he uses, however, are the ones he received first. Although his specialty is Chemistry, he has by no means confined his energies to that field alone, but has become an authority on numerous other subjects, among these being pigs, politics and harmonicas.

CARLETON ALLEN READ

Professor of Steam Engineering

B. S., M. I. T., 1891; Instructor in Mechanical Engineering, M. I. T., 1891-99; Professor, New Hampshire State College, 1899-1908; Professor of Steam Engineering, W. P. I., 1908- .



We have with us today a noted authority on Steam, Steam Engines, Steam Boilers and Steam Pipes, in fact everything with heat in it, as well as things without heat, Refrigeration, and things like that. You might ask why "B. A." and not "C. A.," but as this is a subject of too large a proportion to discuss, we cannot satisfy your curiosity. However, an extended thesis on this subject can be had from Prof. Read's man, Sammy.

Anyone who has had a course with "B. A." cannot have failed to be deeply impressed with the value of the expressions "and so forth," "things like that," "the inscrutable laws of nature," and numerous other oft repeated phrases, used as convenient means for ending sentences, especially when those sentences would better have ended with a period. We must frankly admit, however, that some of "B. A.'s" odd ways of explaining problems were very effective and to the point.

To be a good fellow was a particular desire of Prof. Read and most of us appreciate the attitude which he always took toward the class.

CARL DUNHAM KNIGHT

Assistant Professor of Experimental Electrical Engineering

B. S., W. P. I., 1903, and E. E., 1908; Instructor in Electrical Engineering, 1904-08; Assistant Professor of Experimental Electrical Engineering, 1908- .



When first we met Prof. Knight we were prejudiced in his favor by the fact that he had been through the mill before us. Also we had heard wondrous stories of him, but after a few disillusions even the most optimistic grow skeptical. But for once the "stories" were not overdone, in fact they completely failed to do him justice. For he has never been known to lose his temper—not even when some idiot has tried to send 50 amperes through a five-ampere wattmeter. And his universal popularity is attested by the utter lack of even a single "nom de plume."

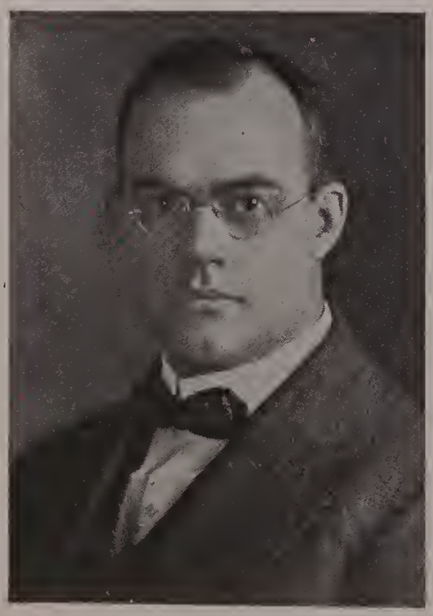


DAVID LAMPREY GALLUP

Professor of Gas Engineering

B. S., W. P. I., 1901, and M. E., 1906; Instructor in Mechanical Engineering, W. P. I., 1902-09; Assistant Professor of Gas Engineering, 1909-13; Professor, 1913- .

Very little need to introduce Prof. "Davy" Gallup to the people who read automobile magazines of today, or who have any knowledge concerning "Who's Who" in regard to Gas Engines. No one fully appreciates the real ability of this well dressed, quiet looking individual until they see him watch a mechanic tinker with a gas engine for a while, then with a little remark, sotto voce, chuck his coat and get into the game himself. Then it is they believe he must have a sort of supersight in locating trouble, for before he has had time to get his hands dirty the engine is running like the proverbial sewing machine. His recent election to the presidency of the Worcester Auto Club attests his general popularity.



CLARENCE ALBERT PIERCE

Professor of Theoretical Electrical Engineering

B. S., Wesleyan, 1902, and M. S., 1904; Ph. D., Cornell, 1908; Assistant in Physics, Wesleyan, 1902-04; Instructor in Electrical Engineering, Cornell, 1904-11; Assistant Professor, W. P. I., 1911- .

"Doc" acquired his education via Mount Hermon, Wesleyan and Cornell. Only the electrics meet this extraordinary man in a scholastic way, and half of them would be entirely willing to forego this privilege to escape the terrors and anxiety of the three required courses in theoretical A. C. But the most rabid of these unhappy ones confess eventually that a large portion of their knowledge of Electricity is due to him. Half the time he forgets his notes, but that doesn't fuss him one bit, for he wades through the differential equations and whatnot as if he were reading them from his notes. And then to let the "deep stuff" sink in he tells us of his experiences with the Westinghouse Co., or at the Bureau of Standards, or possibly how he was almost converted in Ithaca.

ROBERT CHAUNCEY SWEETSER

Professor of Analytical Chemistry



B. S., W. P. I., 1883; Assistant in Chemistry, 1885-88; Instructor, 1888-1908; Assistant Professor, 1904-14; Professor of Analytical Chemistry, 1914- .

B-o-b-b-y is a way to spell reticence with five letters. Nothing ever gets "Bobby" excited; he takes everything calmly. His lectures are characteristic of the deliberate, careful way in which he does things. No statement ever escapes him until he has qualified it so that it will hold in all possible cases. He never skips over a point in a lecture, no matter how simple it may seem, without explaining thoroughly just what he means. One might conclude from this that his examinations would be exacting and searching in the extreme, but as a matter of fact "Bobby's" exams are of quite a different nature, catch questions and the like being entirely unheard of in them.

"Bobby's" patience and his attitude toward the men in his classes have won him a high place in their estimation, which he justly deserves.

DANIEL FRANCIS CALHANE

Assistant Professor of Industrial and Electro-Chemistry



A. B., Harvard, 1894, A. M., 1896, and Ph. D., 1904; Assistant in Chemistry, Harvard, 1899-1903; Instructor, W. P. I., 1903-12; Assistant Professor of Industrial and Electro-Chemistry, 1913- .

Whatever we may be doing we always like to have the best saved for us till last. This was the way we received "Dinny," 'The Senior's Prof."

He was the first to give us credit for being over fifteen and knowing something. We learned from him that the work was to be "man-to-man" and that no "police duty" was to be performed. This we found to be a pleasant change from our previous experience.

"Dinny's" lectures are full of "real dope," but he lightens them now and then by glibly stating such things as: "It's a well known fact from *a priori* reasoning that this substance when *tree*-mendously ex-cessive is *persona-non-grata par excellence*," while he lightly dances back and forth behind the desk.



CHARLES JOSEPH ADAMS

Assistant Professor of English

A. B., Amherst, 1896; Instructor in Modern Languages, W. P. I., 1908-13; Assistant Professor of English, 1913- .

"Pop" Adams, German scholar, inimitable toastmaster, A-1 reconteur of stories, indefatigable smoker of Pall-Malls, and a general good fellow. How well we remember the days of German I, when that course considered philosophy, square-deals, art, wit, smoke-talks, in fact 'most everything *but* German. His course was not given in the curriculum as he gave it, but who shall say that as years go by his little personal talks will not stand us in better stead than his German? We think so at least, and we know that his personality will be remembered as long as we have occasion to review the names of the "profs" under whom we toiled.



HOWARD PARKER FAIRFIELD

Assistant Professor of Machine Construction

Instructor in Machine Design and Shop Work, Case, 1891-99; Machine Construction, W. P. I., 1899-1914; Assistant Professor, 1914- .

Did you ever feel gloomy about your future possibilities? If you did, a visit to Prof. Fairfield would have done you a world of good. According to his philosophy, any graduate of W. P. I. is certain to be successful if he but has the ambition. How often we have listened with a wholesome interest to his version of the "whys" and "wherefores" of the brilliant career of some W. P. I. man. Certainly he is a "booster" for the Institute.

"Pa," as he is called because of his kindly interest and fatherly way with the students, has an air of dignity and a calm, quiet demeanor that makes him seem out of place in a machine shop. He is usually able to talk for an indefinite length of time about almost any subject if he once gets started. Unless you have plenty of time to spare do not let him get started. His habit of prolonging conversation has, no doubt, developed for the most part from the readiness with which he answers any question which is asked him. We like "Pa" for his kindly, unselfish way and appreciate the fatherly advice and guidance which he has so thoughtfully given us.

RAYMOND KURTZ MORLEY

Assistant Professor of Mathematics



A. B., Tufts, 1904, and A. M., 1904; Ph. D., Clark, 1910; Instructor in Mathematics, University of Maine, 1904-07; W. P. I., 1910-11; University of Illinois, 1911-12; Assistant Professor, W. P. I., 1912- .

Our remembrances of Dr. Morley are many, chief among them being his familiarity with the "logs" of all numbers up to fifty; his mastery of the hour plan schedule; as well as his ability to arrange and rearrange it to give us two or three afternoons off; his habit of mutilating chalk during his explanation of "calc"; and his deep feeling for the personal welfare of every man at Tech, to say nothing of his absolute fairness in all his classes. During our Freshman year "Doc's" chief recreation was raising a moustache during the regular weekly vacations, but of late we have noticed no regular changes in appearance and we congratulate him on his good judgment.

JAMES CHRISTOPHER DAVIS

Assistant Professor of Mechanical Drawing



B. S., Purdue, 1903, and M. E., 1915; Instructor in Practical Mechanics, Purdue, 1904-06; Mechanical Drawing, W. P. I., 1906-14; Assistant Professor, 1914- .

Many changes have come to "Jimmy" since we have known him. He is now able to write that awe-inspiring word "Professor" before his name; he has grown a mustache, and has had two real haircuts.

But the part we like best is that he hasn't changed in our relations with him. Although we disliked to the *n*th power to have him decorate our drawings with an unerasable blue pencil, yet we could feel that it was all for the best, and that we would be better engineers for it.



MORTON MASIUS

Assistant Professor of Physics

Ph. D., University of Leipsig, 1908; Whiting Fellow, Harvard, 1908-09; Instructor in Physics, W. P. I., 1909-15; Assistant Professor of Physics, W. P. I., 1915- .

As Freshmen we often used to wonder who that tall, serious-faced individual was, who paraded about the hill in a most reserved manner, wearing a soft black hat, a brilliant red necktie and occasionally enjoying the friendship of a meerschaum pipe of mammoth proportions, but it was not until we began to fathom Physics that we really became acquainted with this party whom we now know as "Dutchy." How many times have we had to overlook the literal meaning of "Dutchy's" "Imagine yourself a string cut in two" and "speak before you think," in order to get the true meaning of his logic, but when we once got to understand his eccentric ways we found an instructor with all the gifts of a true friend and a successful teacher, for he was able to make clear more physics, "per square inch," than any other man on the hill. His frequent, "I am now going to call upon some one who doesn't know anything," has often forced home the high points in the lesson as no other way could.

Dr. Masius was born in Germany and received his Ph. D. from Leipsig in 1908 and in 1909 came to Harvard at a Whiting Fellow. After finishing his work at Harvard he came to us at Tech in the rôle of instructor in Physics and has been with us continually since that time.



1916 · AFTERMATH · 1916



1916 · AFTERMATH · 1916





INSTRUCTORS

JOHN JERNBERG

Instructor in Forge Practice

W. P. I., 1882- .

No matter whether a Senior ever had "Johnny" as an instructor, we all know him anyway. His short, stubby figure, protected in front by a time-worn leather forge apron, makes a picture we shall always remember.

He has occupied his present position for the last 34 years and has a good chance of doubling that record if he wishes, but probably before that time comes he will have retired onto his Salisbury Street Estate, from which he now drives in every morning via his two-lunged, 1895 model "Giddyupthere." "Johnny" is a lively example of the effect of contentment and a happy disposition on the life of an individual, and 1916, in recognition of his attitude to its members, wishes him all kinds of happy returns in the years to come.

FRANCIS JOSEPH ADAMS

Instructor in Electrical Engineering

B. S., W. P. I., 1904; Graduate Assistant in Electrical Engineering, W. P. I., 1904-06; Instructor, 1908- .

"Rip" returned to the corner of West and Salisbury at the beginning of our Senior year, after having been loaned by the Institute to the Worcester Electric Light Co. for the purpose of putting in the "Great White Way" along Main Street. His work accomplished there, he has since been endeavoring to instill "Transmission" into the Electrics'

heads. To his classes he is known as an instructor who knows the troubles of a Tech man and distributes his assignments accordingly.

JAMES ATKINS BULLARD

Instructor in Mathematics

A. B., Williams, 1908; Ph. D., Clark, 1914; Instructor in Mathematics, W. P. I., 1908- .

The secret of Dr. Bullard's popularity among the students is the sincerity of his interest in the individual student and the enthusiasm with which he has taken up the work in the various branches of student activity with which he is connected. In the class-room he is always willing to develop the simplest or the most difficult problem for the densest or the brightest man in the class, and when he is through, if it is not clear he will start all over again, and keep at it until he has made it clear. His interest in student activities and his experience as an undergraduate at Williams College, where he was an athlete of no small reputation, fit him admirably for the position which he holds on the Athletic Board. As chairman of the Interfraternity Council he holds a position of influence in a branch of the school life which is of the greatest interest to a large percentage of the student body. In all things "Jimmie" has shown that he is well worthy of that respect and friendship which we have for him.

ARTHUR JULIUS KNIGHT

Instructor in Civil Engineering

B. S., W. P. I., 1907; Instructor in Civil Engineering, 1910- .

"Shrimp" is another one of those dry, sarcastic individuals who reign at Boynton Hall, and whose chief recreation in life is in trying to make Civil Engineers out of Mechanics and Electrics in a four-months course in plain surveying. Whether or not he succeeds is a matter of some doubt, but his practical experiences and ever faithful efforts with the men in his courses have made him one of the most popular instructors on the "Hill" and with the Civils, he is second only to "Pa" French.

As a graduate of Tech, he has served his Alma Mater as few others have. The new athletic field and the gymnasium progressed under his direct supervision and for some years he has been a big factor in the managing of our athletic affairs, to which he has devoted much of his valuable time. He is a man of very few words, but when he talks he has something to say and our recollections of him will always be of the pleasantest.

FRANCIS WILLIAM ROYS

Instructor in Mechanical Engineering

B. S., W. P. I., 1909; Instructor in Mechanical Engineering, 1910- .

Very few students graduate from the Institute without coming into contact with this man, and never one meets him but realizes that "Spider" Roys is indeed a man in every sense of the word. A harder worker, a more thorough teacher, a more conscientious and square man would be hard to find. He is respected and admired by the student body because of his sterling qualities, his never failing understanding of another man's troubles and difficulties, and his ever readiness to aid a man who will aid himself in every possible way. He is one of the few whom the students really believe when he says it hurts him more to condition a man than it does the man himself.

"Spider" is a natural born teacher, very practical, and a mighty good friend to have and know.

ANCEL ST. JOHN

Instructor in Physics

Ph. B., University of Rochester, 1906; Instructor in Physics, Syrian Protestant College, Beirut, 1906-09; Graduate Assistant in Physics, Columbia, 1909-10; Acting Professor, Emory and Henry College, 1910-12; Instructor, W. P. I., 1912- .

"Gosh, but ain't he thin." Yes, we must admit that "Ans" is built on the style of the Boston Customs House: about the same size all the way up to the top, but that doesn't seem to strain his ability as an Instructor. According to all reports he is still grading on "impression-obtained" and the students are still standing for it. Just as he always will do, he is propounding pet theories on the war, the human hace, boneheads, the pip, and "myself." We suggest that "Ding" make a motion study of "Ans" on his bicycle going down West Street hill at noon-time. Some complicated, eh!!!

HENRY ROBERT POWER

Instructor in General Chemistry

B. S., W. P. I., 1911, and M. S., 1913; Graduate Assistant in Chemistry, W. P. I., 1911-12; Instructor, 1912- .

"Henry R." is what we call him now. When we were Freshmen we had another name for him which was suggested by the persistent way in which he sought for information in the chemistry quizzes. Since we have come to know him better, however, we have found that his searching questions were not for his own enlightenment on the subject of general chemistry, as we had been led to believe, but we have come to know that he is decidedly "there" on chemical subjects, especially on questions of food analysis.

Having been a Tech man nine years, four years as an undergraduate and five years as instructor, he has become thoroughly infused with Tech spirit, and as a member of the Publicity Committee of the Institute he is doing much toward helping Tech gain recognition in Worcester and elsewhere.

HERBERT STEVENSON BUSEY

Instructor in Mechanical Drawing

Maryland Institute, 1898; Instructor in Mechanical Drawing, Purdue, 1910-12; Instructor, W. P. I., 1912- .

"Smokey Joe" Busey came to Tech at the time of our registration. To some of us he was allotted as our boss in Mechanical Drawing—and a good boss he was. We held not a thing against him; in fact the whole division was with him to this extent: at the end of the year, when he came around to collect the thirty-five cents for the fifteen cents worth of paper, some kind hearted gent proposed to increase the amount to fifty per in order to keep "Joe" in shaves and haircuts for next year. Sad to say, the plan fell through.

WALTER WILLIAM MONROE

Instructor in Pattern Making

W. P. I., 1912- .

After standing for us a whole month "Chick" Tilden gave up in despair and Mr. Monroe took up the difficult job of teaching us the quickest and easiest way to cut off nails on the circular saw. His temperament was somewhat different, likewise his habits, for it has been rumored that the hinges on his office door have rusted since "Chick" gave up using them so often—and with such *spirited* results.

SAMUEL JAMES PLIMPTON

Instructor in Physics

Ph. B., Yale, 1905, and Ph. D., 1912; Loomis Fellow, Yale, 1905-06; Assistant in Physics, Yale, 1909-12; Instructor, 1912-13; Johns Hopkins, 1913-14; W. P. I., 1914- .

One look at "Plymp's" record and you can see that he has had some experience in the Science of Physics before he came to Worcester. After getting his Ph. D. and Ph. B. at Yale University he acted as assistant in Physics there until 1913, when he went to Johns Hopkins for a year before hitting the trail for W. P. I.

When he came he brought with him a "Hungarian Packard," which he uses for divers purposes. It needed no horn, for the car itself made racket enough. Since the demise of this noble four-tired animal he has acquired a real car which generally may

be seen waiting patiently for its master in the back yard of the Salisbury Lab. There used to be stories about joy rides at night with our friend "Ans," but as neither one ever told tales the rides could never be verified.

FARRINGTON DANIELS

Instructor in Theoretical Chemistry

B. S., University of Minnesota, 1910, and M. S., 1911; Ph. D., Harvard, 1914; Instructor in Theoretical Chemistry, W. P. I., 1914- .

"Doc" Daniels came to us from Harvard in 1914, with a newly acquired Ph. D., to teach us History of Chemistry, Theoret, and incidentally glass-blowing. He hails from the West, but in spite of that fact he shows no Jesse James or Nick Carter characteristics. If there is one phrase which will describe him it is "up-to-date." He shows this quality in his lectures, which always contain material from the most recent literature, in the cut of his clothes, and in the equipment of his laboratory, in which he shows a partiality to the most modern electrical appliances of all kinds. One would have to sit up nights to find something new to spring on "Doc," and even then we have our doubts of being successful.

JOHN AUSTIN SPAULDING

Instructor in German

A. B., Harvard, 1911, and A. M., 1912; Sheldon Fellow, Harvard, in Germany, 1912-13; Instructor in German, W. P. I., 1914- .

True to the language which he so ably teaches, John Spaulding is an enthusiastic "pro-German" and firm believer in their ultimate victory. He is a very able and versatile man, has had the advantage of a long residence and education abroad and consequently is well versed in the present status of foreign affairs.

As one gets better acquainted with John one is soon aware of the fact that he has a bump of modesty which is equaled only by his fear of the gentler sex and their wiles. Nevertheless, he is a man whom it is a privilege to know.

ALBERT SEABURY CRANDON

Instructor in Civil Engineering

B. S., W. P. I., 1914; Instructor in Civil Engineering, 1914- .

This is Crandon's second year at the Institute as an Instructor in the C. E. Department. While in his undergraduate day at W. P. I. he made such an impression as a

student that he was invited to return and help others over the hard points. To say that he has been successful in this would be putting it mildly.

Not only has his work been connected with the Civil Department, but also with the Mechanical Department, where he has been assisting Freshmen in that gentle art of "Descrip." According to all reports he seems to know all there is to be known about that subject and then a little more.

DONALD MAY RUSSELL

Instructor in Mathematics

B. S., W. P. I., 1913; Instructor in Mathematics, 1915- .

None of the Seniors have ever made the acquaintance of "Don" Russell via the class-room. Before coming to the "Hill" he had acted as an instructor at the Boys' Trade School, but left there to accept the position of Mathematics Instructor here, while at the same time pursuing graduate electrical work.

RICHARD CARLETON JOSLIN

Instructor in Modern Languages

A. B., Dartmouth, 1914; A. M., Harvard, 1915; Instructor in Modern Languages, W. P. I., 1915- .

This quiet young man is not so well known to the members of the 1916 Class because of his more recent arrival. Nevertheless, he is hailed by all who have been able to meet him as a mighty good chap. He started out his college career by gathering an A. B. at Dartmouth in 1914 and went to Harvard for his A. M.

He has been with us this year in the capacity of instructor in modern languages and has been an able and popular man in his line. We trust that he will stay long with the Institute, and continue to instruct the Freshmen and Sophomores as to the intricacies of Spanish "as she is spoke."

CARLETON DEANE HAIGIS

Instructor in Physics

B. S., W. P. I., 1915; Instructor in Physics, 1915- .

Haigis graduated from the Institute only last year as a General Science student. Although originally an Electric, he changed his view and also his workshop from the E. E. Lab to the Physics Lab, where he delighted in chasing ions and electrons up and down an imaginary wire. This year he has been intrusted with classes in Physics, taking the place made vacant by "Red" Cummings. The Sophomores are already convinced that

Carleton is some physicist, for he has endowed science with a completely new system of units which his brain has evolved.

His conscientious pursuit of the intricate problems of Physics is proof that his mark will some day be made in the Research Department of some great manufacturing concern, and that his name will be handed down to future generations.

GEORGE ALBERT HILL

Graduate Assistant in Organic Chemistry

B. S., W. P. I., 1913; A. M., Harvard, 1914; Graduate Assistant in Chemistry, W. P. I., 1914- .

If you want to find "Mister" Hill just walk up to the top floor of the Salisbury Laboratory and listen. When you hear someone start whistling a medley of grand opera selections and popular songs, hunt up the source of the disturbance and you will find G. Albert in his laboratory, figuring up the yield from his latest ether extraction. When he is not at work on his thesis, you can find him trying to develop some chemists out of Freshmen in the Freshman laboratory, or helping the Juniors over the rough places in Organic. To all he is known as "a friend in need" and the rest of the quotation holds without being repeated.

ALBERT B. RANDOLPH PROUTY

Graduate Assistant in Electrical Engineering

B. S., W. P. I., 1914; Graduate Assistant in Electrical Engineering, 1914- .

The question before the House is: Did anyone here ever see Prouty do any work? A silence follows.

All of which doesn't mean that "A. B. R." never does work. It signifies, probably, that what is done is done where no one sees him—down in the H. T. Lab. The completion of the 600,000 volt transformer has been due in a large measure to his ability and hard work, and now nothing delights him more than to monkey around with a few hundred thousand volts, watching an insulator groan in agony under the pressure from this piece of apparatus.

CHARLES BUELL HURD

Graduate Assistant in Chemistry

B. S., W. P. I., 1915; Graduate Assistant in Chemistry, 1915- .

No, "Charlie" is not a Freshman, although he does spend a good share of his time in the Freshman laboratory. It is four years since he had his troubles there as an undergraduate; now he may be having more troubles there, but not as an undergraduate—he

is "boss." Outside of the Freshman lab., "Charlie's" favorite resort is "Doc" Daniels' private laboratory, where he works on his thesis when not showing some Senior, who has been spending weeks trying to make a piece of special apparatus for them, how simple it is to blow glass.

As he was a '15 man, he had many friends in the present Senior Class who have been glad to have had the opportunity of associating with him another year.

CLYDE COLBURN WHIPPLE

Graduate Assistant in Electrical Engineering

B. S., W. P. I., 1915; Graduate Assistant in Electrical Engineering, 1915- .

After graduating last year with the Class of 1915, Whipple returned to act as "Instructor in Electric Lab," taking the position made vacant by "Wallie" Stearns, who was away on a leave of absence. His wide knowledge of Electrical Engineering allowed him to fit nicely into this position, and his extreme willingness to part with it in helping others made him a popular laboratory assistant. His principal work seemed to be in jollying "John" along, or else in discussing some deep question of the day with "C. D."

CARROLL FULLER MERRIAM

Assistant in Mechanical Engineering

B. S., Harvard, 1915; Assistant in Mechanical Engineering, W. P. I., 1915- .

It is not often that a man gets a write-up as a student as well as an instructor, for the simple reason that one is not often found with the ability to hold down both jobs.

"Cy's" only delight is in seeing something go wrong about a power house so that he may get down to work, make a diagnosis of the trouble and then remedy it. As a laboratory assistant he is a hard worker, and for him there is no clock. He quits when the job is done and not before. Many students have appreciated this trait, as they dreamed hungrily of their dinner while "Cy" held them to finish some kind of a test.

Nevertheless, his whole-hearted willingness to help any student in trouble, no matter what the subject, has obtained for him a popularity gained by few.

BURTON LINWOOD GRAY

Instructor in Foundry Practice, W. P. I., 1910- .

Even as others are "Kings" and "Kaisers," Mr. Gray is the "Kink" of the Foundry. Besides having the supervision of a large commercial force turning out the most difficult of castings of all kinds, it is up to him to show the Freshmen the first rudi-

ments of dry sand moulding, to show them the difference between the cape and nowel side, and to prove to them the cupola is not the top of the building but a furnace. Sometimes he must think his teachings are in vain, but he never shows it, and always appears with a cheerful word and smile.

SAMUEL EMORY BALCOM

Instructor in Management of Engines and Boilers, Superintendent of Buildings and Grounds.

Instructor in Management of Engines and Boilers, W. P. I., 1908- ; Superintendent of Buildings and Grounds, 1914- .

Whenever anything was wanted in the M. E. Dept., they always went to Sammy for it, and he knew where it was. What difference did it make if he was the first steam engineer we ever saw who could wear a white collar all day without a single smootch on it; he did it and got away with it.

Now as Superintendent of Buildings, Mister Balcom is forever seen in a hurry, stretching his short legs in five-foot strides from one edifice to another and always working for the good and comfort of the students.

Alma Mater

Dear Worcester Tech, our Polytech,
Our praises ring to thee.
To Alma Mater, good and true
We pledge our loyalty.
Long have we felt thy guiding hand,
Thy teachings broad and free,
With praises loud in every land,
We'll show our love for thee.

CHORUS

Then here's to Worcester Polytech,
Come fellows join in our refrain,
Wave high the colors Crimson and Grey
For good old Polytech.

As years roll on and changes bring
To all things great and small,
We still will thee in reverence hold,
We'll greet thee one and all
In accents which no one may doubt,
In terms so strong and bold,
The world will know thy worth to us
Increases many fold.

—WILLARD HEDLUND

SENIOR

One by one the cords are severed.
Harder, colder, looks the earth.
Now it's rising fast to strike us.
Now men, let us prove our worth.



S. T. WILLIAMS



FRESHMAN YEAR—1912-1913

First Semester

President—Elwood S. Marble
Vice-President—George H. Upton
Secretary—Everett H. Francis
Treasurer—Theodore E. Kloss
Sergeant-at-Arms—William R. Tinker

Second Semester

President—Elwood S. Marble
Vice-President—George H. Upton
Secretary—Everett H. Francis
Treasurer—Theodore E. Kloss
Sergeant-at-Arms—William R. Tinker

SOPHOMORE YEAR—1913-1914

First Semester

President—Carl H. Burgess
Vice-President—Cedric E. Stone
Secretary—Harold G. Saunders
Treasurer—Lawrence C. Jones
Sergeant-at-Arms—Philip P. Murdick

Second Semester

President—Cedric E. Stone
Vice-President—C. Leroy Storms
Secretary—Everett H. Francis
Treasurer—Lawrence C. Jones
Sergeant-at-Arms—William K. Jealous

JUNIOR YEAR—1914-1915

First Semester

President—C. Leroy Storms
Vice-President—Edward A. Varney
Secretary—Richard W. Young
Treasurer—Harold W. Toombs
Sergeant-at-Arms—William K. Jealous

Second Semester

President—William E. Shumway
Vice-President—Carl H. Burgess
Secretary—Richard W. Young
Treasurer—Harold W. Toombs
Sergeant-at-Arms—Warren B. Burgess

SENIOR YEAR—1915-1916

First Semester

President—Richard W. Young
Vice-President—Everett W. Francis
Secretary—Richard M. Thackeray
Treasurer—Harold W. Toombs

Permanent Officers

President—Harold A. Cleveland
Vice-President—Ellery E. Royal
Secretary—Richard W. Young
Treasurer—Harold W. Toombs



HAROLD ALLBEE CLEVELAND

Φ Γ Δ Skull Civil

Born Aug. 14, 1893, Woonsocket, R. I.

Prep., Woonsocket High School.

Track (1, 2, 3, 4); Relay (3, 4); Journal (2, 3, 4); Editor-in-Chief (4); Business Manager Tech Show (3); Treasurer Dramatic Association (3); President Dramatic Association (4); Chairman, Commencement Week Committee; Class President (4, 2).

Woonsocket—noted for nothing, but boasts of being the birthplace of this modest and unassuming personality, which shows that every place has its drawbacks. He is a simple, quiet (?), level-headed athlete and a thoroughly popular member of the Class of 1916.

During Cleve's four years with us his chief field of endeavor has been the track, where his work was of high calibre. He is thoroughly conscientious in all of his undertakings, and is one of the few Civils whose reverend pictures will not be found on the walls of the Boynton Hall Grill and Card Room. Unlike others, he has not received his nourishment from those fresh, toothsome doughnuts of the "Rat Hole," fried in the year 1910.

When once initiated into Worcester society, he immediately became an active student of the "concrete" differences between the Worcester and the Wooooooonsocket "wrens." In order to facilitate his studies, he makes weekly journeys between the aforesaid points. There has been nothing for publication as to the results of these, but "girls are girls," and conclusions are not always couched in terms authenticated by the Y. M. C. A.



Being well acquainted with all the giggles and wiggles, it is necessary for him to spend much of his quiet (?) time in the perfection of the terpsichorean art. It has been rumored that, although a good runner, this technical training has sapped his vitality. However, we prophesy that if any man in this class expects to hit the top rung of the ladder of success he will have to push "Cleve" off.



HORACE FREDERICK BANAN

"Horrie" "T. A. Bill"

Θ X Skull Electric

Born May 10, 1893, Lawrence Mass.
Prep., Lawrence High School.

Football (2, 3, 4); Captain Football (4); Track Team (1, 2, 3, 4); Rifle Team (2, 3, 4); Captain Sophomore Rifle Team (2); President Rifle Club (4); Head Junior Marshal (3); Junior Prom Committee (3); Constitution Committee (3); Tech Council (4, 2).

Our friend Horace, better known among some of his more intimate friends as "T. A. Bill," came to us from the thriving city of Lawrence, his mind set upon becoming an Electrical Engineer. His name always assured him a front seat at all our studious functions, although its pronunciation seemed to puzzle some of the professors and instructors. Horace was always very obliging in helping them out of this difficulty, however, for when they made an attempt which sounded very much like Ban'-non, he would always reply in a clear authoritative voice Ba-nán.

One of the prime movers in the formation of a Rifle Club to represent "Tech," his steady nerve and true eye, together with constant and faithful practice, have made him one of the best shots upon the "Hill" and aided in the success of this branch of Tech activity. Horace has also been one of Tech's faithfuls, and every night during football season he might be seen practising with the squad. He early received a "W" for his work upon the football team, and in 1915 was elected captain of the most successful eleven which has represented Tech in recent years.



Outside of these activities, he is of a quiet nature and rather reserved, but once out of the shell of reticence, Horace's progress in the numerous arts and sciences has been rapid. He is always ready for a good time, and is a fellow well liked by the rest of his classmates.



DAVID KEITH BEACH

"Rex"

Σ A E T B Π Civil

Born Feb. 1, 1894, Orange, New Jersey.
Prep., Newark (New Jersey) Academy.

President Civil Engineering Society (4); Junior Prom Committee (3); Commencement Week Committee (4); Interfraternity Council (4); AFTERMATH Board.

"Rex" stands as proof of the fact that Jersey mosquitoes have no respect for size. Nothing less than a microscopic examination would ever show him to be present, but the mosquitoes at home found him just the same. Because of this, he moved to Worcester, where, he had heard, one was less liable to be stepped on by these animals.

At the first of the year he was wont to carry around with him a four-foot rule, but it was not long before he appeared one day with the cutest little slide-rule our eyes ever gazed upon, resting in his vest pocket with the larger "stick" for protection.

His remarkable standing as regards scholarship cannot be explained unless it be called "Ingrown Horse-shoes." Seldom if ever is he found with a book before him, and only carries them to class for their psychological effect on the Instructors.

Had old "Ike" Newton added a fourth rule to his other three, he would have said. "Energy in man varies inversely as his size." This would have applied to "Rex" Beach from A to Z. In his outside work, in the class-room, or on the football field it has been a wonder to us all that so much energy could be crowded into such a small frame.



"Rex" has been elected the best bluffer, the man with the biggest pull, the man luckiest in getting by, and the most practical among the Senior Civils. Surely, for a little man this seems too much to be responsible for, nevertheless, he comes up smiling and will certainly be a "Big" concrete man one of these days.



COBURN LEE BERRY

"Duke" "Coburn" "Cobe"

Chemist

Born Portland, Maine, May 26, 1894.
Prep., Portland High School.

Coburn hails from Portland, that city where "more fun, you know," goes on, and where "more people are killed every year," that is, according to Coburn. To see Coburn dressed in his sweat-shirt, with his hands in his pockets and his pipe in his mouth, you would wonder what Tech is coming to, or rather what is coming to Tech, but on seeing him all rigged up for one of his "large times," you would immediately recognize him as one of Portland's "400."

"Duke" resides at Tech's "gold coast" (104 Highland Street), which is famous for producing five-year men. It is rumored that the telephone is responsible for this. That particular telephone notably has the reputation of being used more frequently for long conversations than any other telephone around Tech Hill. This fact is readily admitted by other parties on the line. "It is rumored in fashionable circles, here and elsewhere" that "Cobe" can "carry on" pretty well himself. So it was that he was marked in the past to be a five-year man, but Coburn can have his "snicker"—he "fooled 'em." Those of us who have worked with him know that it is because of his natural ability as a student, and his skill in the laboratory. He never has to be "shown" more than once about anything, and not even that much about many things, in fact he has been showing P-T's how to be able to declare dividends for quite some time, to say nothing of helping out the florists and Page & Shaws on other odd evenings when it was necessary to stay up so as to be at the regulation Chemists' eight o'clocks on time.





CHARLES AUGUST BJORKMAN

"Bjorky"

Electric

Born Worcester, Mass., Jan 31, 1894.
Prep., Classical (Worcester) High.

How is it pronounced, you ask? Oh, that's easy after you have tried it a few times. Just slide over the first two letters as if they were greased and then really commence on the next one.

There are just two characteristic things about "Bjorky," one is his hair and the other is his tardiness, or, as he himself prefers to put it, the Consolidated's behind-time-ness.

Ever since Charles August grew up he has owned the best and most up-to-date micrometered, porcupinical haircuts ever possessed by man, and this possession has been so cherished that he would rather lose his standing in the Swedish Navy than to have his herbage destroyed.

As for his tardiness, it is sufficient to say that his name is no more unsuccessful of pronunciation than "Bjorky's" attempts to get to class on time. Whether the class be at 8 o'clock or at 4 o'clock his seat has always been empty until two minutes after the beginning of class. Then down the corridor comes the sound of a long swinging stride. His flushed face (signifying exertion), with the ever present "pince nez" perched on it, swings first into view and "C. A." flops down into his seat just in time to answer "Present" to the roll-call. This little scene has been enacted every day since 1912, when Bjorkman first floated in amongst us.



In spite of his occasional tardiness, "Bjorky" is a mighty reliable sort of man, quiet but efficient, with a knack of getting results without worrying too much about them. He received quite a number of votes in the "most likely to succeed" contest, and is undoubtedly slated ultimately for a position where he won't have to use the Consolidated, but can buy a couple of Fords at least.



JAMES ARTHUR BLAIR

"Jimmie" *"James"*

Σ Ξ T B Π Electric

Born March 4, 1893, Whitinsville, Mass.
Prep., Northbridge High.

AFTERMATH; Commencement Week Committee.

Once upon a time there was a little boy and his name was J. Arthur Blair. He lived in Whitinsville until he grew up. And then, one day, he put aside his childish ways and set out to make a place for himself in the busy world. As a means to this end, he entered the Institute in September, 1911. But fortune was against him. Just before mid-years he was forced to leave because of sickness. A year later, however, he returned and since then has been a worthy member of the Class of 1916.

To the most of us he is known as Blair and to his intimate friends as Arthur. But the last man to call him "Jimmie" was taken to the hospital five minutes later.

Arthur disappears almost every night at five o'clock. Sundays we have traced him to Central Church. On other days, his destination is unknown, but his presence at supper always allays suspicion. Outside of this his chief form of recreation consists in canoeing, skating and tennis in their season.

One could not wish for a truer friend than Blair. He is a conscientious worker and is always ready and willing to lend a helping hand. His success at Tech is largely due to his constant application to his work and to his systematic methods, which are only excelled (if, indeed, they are excelled at all) by the German military system. In the days to come Blair will succeed by that same quiet push which has been so characteristic of him here on the Hill.

He started out last summer to be a telephone man and succeeded very well, but has decided that more education is a valuable thing, and so intends to be again on the Hill next year.





EVERETT LINWOOD BRAGDON

"Brag"

Θ X Skull Electric

Born Westbrook, Maine, Jan. 3, 1894.
Prep., Westbrook High.

Class Football (1, 2); *Tech News* (2, 3, 4); Reporter (2); Departments Editor (3); Advisory Editor (4); President Tech News Association (4); Rifle Team (2, 3, 4); Captain (4); Executive Committee A. I. E. E. (3, 4); Chairman Half Way Thru (3); Junior Marshall (3); Editor-in-Chief AFTERMATH; Class Historian.

Bragdon! With commendable regularity was that name called each week in English lecture.

At first the only response was "Here." By that only did we know that "Brag" was with us. But did you expect that he would arrive from Westbrook, Me., with a blatant band and colors gay? Unlike proverbial March, Everett comes in like a lamb and goes out like a lion.

"Brag's" strong point in athletics is in the Rifle squad. He was one of the first rifle men on the Hill—not only chronologically but also in calibre. His unanimous election as captain of this year's team is evidence of the confidence placed in him by the other men of the squad.

But not only with the rifle does "Brag" shine. Report has it that he is to forsake Electrical Engineering and is going to jump to the "Feds." Baseball is his one ambition, and if he could get a chance to show his ability you can't tell what would happen. He has tried, is trying, and is sad because there won't be another chance to make the varsity team.



Well, maybe after all "Brag" won't desert the ranks —for as a technical editorial writer he hasn't an equal in the class. Did I say a technical writer? Is there a technical magazine published in Poughkeepsie? At any rate they must use volumes of editorials.

But after all is said and done, when it comes to efficiency, reliability and general good-fellowship we'll have to take our hats off to Bragdon.



STEPHEN ADLER BROOKS

"Steve" "Brooksie"

Chemist

Born Chicago, Ill., July 3, 1895.
Prep., Newton High School, Newton, Mass.
Glee Club (2, 4).

Why need America look to Europe for her great baritones when here on the Hill we have developed "Steve," who bids fair to outrival Pasquale Amato. His impromptu solos, rendered during laboratory periods, have made him famous, and often the other chemists, hypnotized by his melodies, have stopped their work to blend their voices with his. The result has not always proved to be an improvement and has not been appreciated by "those higher up." The Glee Club, however, recognized his ability and did well to make him a soloist and member of the quartet.

Not only is "Steve" interested in music but he has also "delved" into art and literature. His interest in the finer arts has often caused his classmates to wonder why he chose chemistry as his life work. However, he has fully vindicated himself, for in spite of being continually late to lectures, and often absent, he has kept his work up to the standard.

Before "Steve" developed his voice, he developed his arm, and during Freshman year made a name for himself as a pitcher on one of the fastest division teams in the class.



It would be impossible to enumerate all of "Steve's" interests, but the fact is that he is a hustler. He has done considerable outside work (which may account for many of his failures to answer to roll-call at "Hughie's" eight o'clocks), but he has always found some time to devote to his studies, as is shown by the fact that he is one of the survivors who stand in line for a sheepskin this June.



CLINTON EUGENE BROWN

"Brownie" *"Farm"*

Δ X Δ Mechanic

Born April 23, 1895, Fiskdale, Mass.
Prep., Hitchcock Free Academy.

Why the uproar? Oh! Somebody just asked "Brownie" where he was from. And after the storm abated, "Brownie" tried to explain the location of his town. In connection with this might be mentioned his favorite pastime when home: a good night's sleep from 8.15 P. M. until 9 A. M. Hence the *slang* when discussing his eight o'clocks.

Although not excessively studious "Brownie" has that studious appearance which goes a long way toward the attainment of success in the class room, providing the advantage is not too much abused.

But to be serious: "Brownie" has a fine disposition. Even in the darkest moments of defeat in a Thermo exam., his merry laugh may be heard all over the room, and we forget our troubles.

His greatest misfortune lies in his last name. Not because it is Brown, but because it begins with B. Always, at the beginning of any course, we learn just what is to be expected of us from the criticisms given to the first victim, and because of that B, poor "Brownie" has usually been the victim.

We all wish him great success; he has been a good plugger, and he deserves much credit.

"Brownie" is certainly a great reader, any morning you can see him heading for the Tech Pharmacy, at which place he is sure to purchase a *Telegram.* Sturbridge and Fiskdale news is, of course, his only meat and he surely picks the bones on that.





CARL HASTINGS BURGESS

Φ Σ K Σ Ξ Civil

Born Worcester, Feb. 17, 1894.
Prep., Worcester English High School.

Track (1, 2); Cross-country (1); *Journal* (2, 3, 4); Business Manager (4); Class President (2, 1); Class Vice-President (3, 2).

Burgess, C. H. Who is he? I am asked.

Freshman year, I answer, "A Worcester Man."

Sophomore year, I answer, "Why, Class President."

Junior year, I answer, "NOT W. B., a track man."

Senior year, I answer, "A Senior Civil."

Yes, Carl was all these, and some besides. He, a Civil, negotiated four years of Tech and came through unscathed. He was not decorated with the golden bent, but was recognized by Sigma Xi, for Carl was one of those men who could play cards all night and the next morning arrive at class as well primed as ever.

Some men you read about who aimlessly board trains in far away villages, and innocently find themselves landed at Tech. Not so Carl, for he is a Worcester man. One fine September morn, with some hard earned book money in his jeans, he, with full realization of what lay ahead of him, walked manfully down Salisbury Street, like one with an appointed task. Every day, fair or foul, in the past four years, he has taken that same path over the hill. Sometimes he enters the class room with a flush on his face that resembles the label on a Williams paint can. We remark at the resemblance to a ripe tomato, but he is not perturbed. Nay, our remark slides off him unnoticed, for he is too wide awake to listen to any nonsense. He has been up since 5.30 and would you believe it his light was burning last night till 1.30. "How does he do it?" you inquire. That is the unending question. You will have to ask him.



Indeed, the railroad into whose service Carl goes is fortunate in obtaining such a man, and it will be strange if he is not heard from as a big railroad man in the future.



WARREN BAKER BURGESS

"Bud" "W. B." "Warren"

Born Hyde Park, Mass., June 4, 1894.
Prep., Hyde Park High School.

Glee Club (2, 3, 4); Wireless Association (1, 2, 3, 4); Secretary (1, 2); President (1, 2); Band (1, 2); Sergeant-at-Arms (2).

Hail to Hyde Park! the habitat of "Warren B." Burgess invented and placed on the map, with patents and all rights reserved, that "Hidden Park" of his. I need not write any "Life of ——" for you doubtless have heard it yourself "prima voce" or autobiographically, because you could not help but listen.

"Shunt wound" Burgess is a prosaic and prolific talker; his tongue has a high frequency and his speaking tube seems to have been designed for carrying 200% overload without heating! The only trouble (besides troubles with "Charlie," "B. A.," "Dutchy," etc.) is that there are no circuit breakers in the circuit and only accidental switches. The tension on the hearers is beyond "W. B.'s" high potential dreams, especially when he tries to literally "pound" into some Mechanic or Civil, who merely squeezed by "Joe's Course," the wonders of a "shunt wound" converter or that "two inch quenched spark gap of his."

Burgess is a good student and a fine chap, full of "pep" and overflowing with enthusiasm. He tackles work or play with all his heart and courage and always accomplishes something. His hobbies are wireless, photography and watching the blowing out of circuit breakers in E. E. Lab. His ambition, sincerity and persistence are qualities which are bound to tell.





RAYMOND WOODBURY BURNS

"Bobbie"

Mechanic

Born Nov. 14, 1888, Cincinnati, Ohio.
Prep., Walnut Hill High School, Cincinnati.

Raymond Woodbury Burns comes from Cincinnati, Ohio. At the University of Cincinnati he received the first two years of his college education and, five years later, we find him a student at W. P. I. in the class of 1915. Because he realized the advantage of graduating with the Class of 1916, Burns stayed out of school for a year, returning in the fall of 1915. We have known him principally as a member of the Senior class, with whose members, especially the Mechanics, he has made many lasting friendships.

Raymond Burns is one of those individuals who does not say a whole lot, but what he does say is generally well worth hearing. His greatest characteristic is an earnest desire to get the most out of anything which he undertakes. On the various trips taken by the Mechanics, it was always noticeable that Burns was paying the closest attention to all that was said by the guide, from whom he usually brought forth a continuous stream of information by his many interesting inquiries. Some of the questions asked by him showed a depth of thought that was quite exceptional. Both the practical and analytical turns of mind which he possesses were clearly shown by his very ingenious work in the machine shop.



Our last picture of "Bobbie" will be that of him chewing violently on the ever-present cud of gum, while listening attentively, his head cocked on one side, while "Ding" expatiates on the complexity of the minor members of a jib crane. However, Burns will be remembered by us as a person with industry and zeal who seizes every opportunity to learn and who realizes that reward comes only through endeavor.



LESLIE JASPER CHAFFEE

Σ A E Mechanic

Born Oxford, Mass., Oct. 23, 1893.

Prep., Oxford High School.

Track (3, 4).

"Jap" had to investigate Clark for a year before he was satisfied that Tech was the place for him. Having once been convinced, however, he went to work with a will. From the start he acquired a more than ordinary standing in scholarship and quickly obtained the good-will and high esteem of his classmates.

It is to be regretted that his interest in athletics was not as early stimulated as his other interests. It has resulted in a serious handicap to him in his shot putting and discus throwing. Even as it is, he has won many points for Tech in various track meets.

During his Freshman year he was rather loath to leave home and found it advisable to travel back and forth every day. Even in his Senior year he was induced to return home every week-end by some magnetic attraction. It has been reported — —- —! but then you can't rely on reports.

Although of a quiet and unassuming nature, "Jap" has the faculty of making friends very readily and keeping them. The one bad habit our "Hero" has is perhaps a great longing to visit every moving picture place in town each week. Perhaps he does this to ease his tired brain, after long sessions of crane design and shop management. Who knows?



Taken all in all "Jap" is a good old scout and in spite of his many handicaps, including his year at Clark, he will stand with almost any member of the class in popularity and good esteem.



CEDRIC ANDREW STONE

A T O Skull Civil

Born Aug. 10, 1894.

Prep., Westfield High School.

Football (1, 2, 3, 4); Captain (3); Baseball (1, 2, 3, 4); Captain (4); Class President (2-2); Tech Council (2-2, 3-2, 4-2); Athletic Director (2, 3); President W. P. I. A. A. A. (4).

In the fall of nineteen-twelve there came to Tech a sturdy, unsophisticated country boy. Four years have passed; and that simple country lad, as permanent president of his class, president of the Athletic Association and president of the Student Council, stands out as Tech's most prominent undergraduate.

To outsiders he is Cedric A. Stone, but to his schoolmates he will always be "Ruppy." As a Freshman his boisterous good fun gained him the name of "Ruppytup," and "Ruppytup" he still is. Four years of phenomenal success have changed him not a whit. In times of pleasure we still go into hysterics over his naïve remarks, burlesque actions and infectious laughter. His "By Judas Priest, . . ." farmer kicks and irresistible cackle have held more than one "bull fest" until the wee small hours of the morning.

But in times of stress it is also to him that we turn. When two are out and three on base, it is "Ruppy" that everyone hopes will stride to the plate; when the opponents' fast halfback breaks away, it is "Ruppy" that everyone prays will be in that part of the field; and when serious counsel is needed, it is "Ruppy" that everyone seeks. More than once his plain common sense and nice distinction between right and wrong have guided Tech's affairs along the proper course.



First, last and always "Rup" is a man; and we believe we are quoting the sentiment of the class when we say he stands as the most popular men of 1916.



WELLEN HUBBARD COLBURN

T B Π Σ Ξ Electric

Born Dec. 1, 1894, Worcester, Mass.
Prep., Athol High.

Glee Club (1, 2, 3, 4); Mandolin Club (2, 3, 4); Leader (4); Treasurer of Musical Association (4); Wireless Association (2, 3, 4); Vice-President (1, 4); Cosmopolitan Club (4); Y. M. C. A. (1, 2, 3, 4); Chairman Membership Committee (3); Chairman Religious Meetings (4).

Well, here we have Wellen, crack Electric, prize musician. At first we did not know him, for when he first left Athol he was bashful and forlorn. Accordingly his first two years were spent in solitude and study, at the other end of the city, to the great advantage of his concluding years at Tech.

Wellen has always been interested in Y. M. C. A. work, and in his Junior year, by diligence and interest, he rose to the ruling staff of the Tech Y. M. C. A. At about the same time wireless took a new lease of life here at the 'Stute and it proved to be an event to our Wellen. He has studied and conquered the principles of wireless, and became so interested that he has undertaken a special study of wireless apparatus. In a few years more he will be a full fledged disciple of the famed Marconi.

Colburn's outside life is occupied by driving and repairing the "Ford," and occasionally trying to get away with stories that are hoary with age. He has shown great interest in the mechanical as well as the electrical world and is already an authority on the wear of glass in automobile transmissions. He has studied diligently and been rewarded by a place in the honorary cohort.



Wellen doesn't make very much noise, but it is generally noticed after a little experience that he is there with the come-back after he advances a pet theory, and thoroughly enjoys a good argument on the complexest part of complex alternating current theory. The Institute is to be favored with Wellen's presence as a post-graduate next year.



SIMEON COLLIER

"Si" *"Sime"*

Born Salem, Mass., June 1, 1894.
Prep., Salem High.
Cosmopolitan Club Chemist

Did you ever go into the Salisbury Laboratory on a thesis day, and think you had struck the "Rat Hole" when "Dan" was making beef stew? If so, you may recognize, as the subject of the accompanying photograph, the cause of your delusion. It was not beef stew you smelled, but simply the "nutrient agar" which "Sime" was preparing for the "bugs" which he collected from the various swimming pools in Worcester, in connection with his thesis.

Before "Doc" Bonnet tried to make a chef out of "Si," he bade fair to develop into a chemist. He may do so yet in spite of these recent developments.

In lab. "Si" is a rapid worker and can never be accused of holding back a class. His work in recitations is what might be expected from his work in lab., as is shown by the fact that during his four years on the Hill he has not been invited to attend any of the semi-annual "pink teas."

Owing to the fact that he lives so far away from the Hill, "Si" has not taken much part in Tech activities, but it would be altogether unsafe to reason from this that he has entirely neglected the social side of life during his four years in Worcester.

"Sime's" most apparent characteristic is a tenacity of purpose which generally gets him what he wants. He is always cheerful and has never given his companions a chance to complain that time was dragging, even during the longest lab. period.





JOHN PAUL COMSTOCK

Σ Ξ Sanitary Civil

Born July 12, 1895, Waterford, Conn.
Prep., Norwich Free Academy.

When "Commie" blew into Worcester in the fall of 1913 nobody took any particular notice of him; he was just one of the Freshmen. Nobody knew where he came from except the recorder. If you should inquire at the office they would write down the name of the place on a piece of paper for you. It looks something like this,—Uncasville, Conn. We tried to verify the spelling in several encyclopedias and atlases, but could find in them no reference to the place. Although he claims his home is in Connecticut, those who know him at all are willing to swear that he comes from Missouri.

"Piggy's" notes and "Reddy's" line of bull never proved anything to "Commy." He is one of those few men who know what they came to Tech for and are making sure that they get it. We do not know much about him except in connection with his work at school. At checkers and chess he is quite a "bear." There have been rumors floating around that somewhere down in Connecticut there is a maiden who is in some degree responsible for his shunning the fair ones of Worcester and applying himself to more serious business. What has been said might lead one to think that Comstock is a grind. That is far from true. He is gifted with a brilliant mind and has coupled this with a degree of common sense and determination that is bound to bring him all of the success we wish him.



"Commie's" ability to make money has ever been in the foreground, and we find him "snagging" laundry for the E. & R., waiting on table and washing dishes in a hash-house and sleeping in an undertaker's establishment. Surely, he is the "Boy Wonder, or Bound to Rise."



PHILIP NORMAN COOKE

"Cookie" "Phil"

Mechanic

Born March 25, 1894, Worcester, Mass.
Prep., Worcester English High School.
Glee Club (1).

Just twenty-two years ago "Phil" breathed the bracing air of Worcester. Since then he has achieved much, not the least of which is his membership in the Class of 1916. But "Phil" isn't going to stop here, oh no, just ask him. This is only a starter.

"Cookie" believes that you have got to fool the world or it will fool you, so he began by bluffing the Profs the first day he came to Tech. We don't know how he has done it, but nevertheless he has had great success. However, "Phil" has done some faithful work and the results are to his credit.

There is one thing for which "Phil" takes a decided stand. He puts the girls in a class by themselves and leaves them there. At least he says he does, but we all have our doubts. "Phil" never misses a week at Poli's, and he says he goes with his mother. Perhaps he does, but—.

As a Mechanic "Cookie" has shown great ability and ingeniousness. During his course in pattern shop he thought of a brilliant way to stop the band saw quickly. As a result he paid the doctor several visits and several dollars to make his finger whole again. This lesson has no effect, for during his work in the power laboratory during his Junior year, he had an idea that by placing his foot against the spoke of a flywheel it would quickly come to rest. He must have miscalculated, for he left part of his shoe in the wheel and limped for a week afterward.



"Phil" is always cheerful, and his willingness to assist his fellows has won him many friends.



RICHARD LEIDICH CRAIGHEAD

(Steam-shovel) "Joe"

Electric

Born Craighead, Penna., Aug. 1, 1890.
Prep., Harrisburg (Pa.) H. S. and Worcester Academy.

A momentous event! Sturdily shod in his miners' boots, easily swinging his heavy bag, his face a resplendent advertisement of Pennsylvania, Dutch looking, with pride in his eye and power in his stride, "Our Joe" stepped airily from the train at the Union Station a short five years ago. The school on Union Hill saw and claimed him first. For a year he submitted to the bonds. Then his spirit soared and he with it; and both alighted on the Hill to gladden the hearts and broaden the minds of us, his forlorn and struggling classmates. For "Joe" has that inimitable faculty of bringing a smile to the faces of all who see or hear him.

But even this metropolis is not large enough to hold a man with really big ideas for any length of time. Accordingly the end of the Junior year found "Joe" becoming restless. Result: a trip to the Panama Exposition with incidental glimpses of Chicago and the "burlies," Mexico, the Canadian Northwest and the Great Salt Lake, where he didn't have time to go in swimming, but saw lots of Mormons and wasn't a bit afraid. Last but not least came a visit to the old home, Craighead, Pa., with an old-time reception by the Dutch Band and a regular old Dutch feed. Then "Joe" was ready to return to his lonely friends and regale them with stories of the "Chippies" of Illinois and Arizona. To the favored few is opened his precious picture gallery. Confidentially, they are all in loving attitudes—leaning on his manly shoulders.



But now "Joe" starts on his big trip. The old thirty-two rests in its proper place. Fear is an unknown quantity. All is prepared. The heights of glory beckon. Says "Joe," "Lead on, I follow!"



HOLLON LIONEL DAVIS

"Dave"

Δ T Electric

Born Malden, Mass., July 4, 1890.
Prep., (Sanford High School) Worcester Academy.

Glee Club (1, 2, 3, 4); Manager (3); Student Leader (4); Orchestra (4); Tech Show (1); Junior Prom Committee (3).

Probably "Dave" would be called a Maniac although he was born in Massachusetts, but since he has spent most of his life (or at least the part where the good and bad of a man are determined) in the small town of Sanford, Maine, we see no way but to give him the honorable title of a man from the Pine Tree State.

"Davie" was wise in his youth, for soon after graduating from his little red schoolhouse he entered Worcester Academy to prep. for the school of John Boynton. They say that at first he couldn't get used to the sidewalks of Worcester and persisted in walking down the middle of the road, but after a while he outgrew this custom and became civilized.

Musical ability seems to be Hollon's strong point. It may be tooting away on his cornet, on which instrument he has become an expert, or it may be using his voice in the Glee Club, at the same time wagging his head as time-keeper for the other musical prodigies.

For the last few years "Davie" has obtained his exercise by walking three or four miles every morning to take care of furnaces, arising at 5 A. M. to do it. He claims that there is nothing like these morning walks to clear the cobwebs from your brain, even though the mercury registers 30 below or twice that above.

Hollon is possessed of a quiet, unobtrusive nature which means that he will never be lacking for Success in whatever field of work he may take up, and that his friends will be Legion.





WINSOR REED DAVIS

Φ Γ Δ Skull Mechanic

Born Worcester, Mass., May 8, 1892.

Prep., South High School.

Author of Tech Show (2, 3, 4); AFTERMATH Board; Class Prophet.

To put it in the words of "The Only"(??), "Win" is one of "our Worcester boys." He was born and brought up in the said town and received his preparation for the "higher education" at the South High School. His first intention was to become a journalist, movie writer, or some such thing, and he accordingly matriculated at Dartmouth.

After a year at Hanover, however, "Dave" decided that after all he would rather be an engineer, so he came back to the "City of Prosperity" and became a right worthy Mechanic at Tech. Here he has shown that he has not forgotten his academic training at Dartmouth, for he has been the author of the Tech Show for the three years that he has been here. He is a member of the AFTERMATH Board and also the Class Prophet.

If you were up on Tech Hill about twelve o'clock some noon and should by chance hear the expression, "Hey, got a match?" or "Hold this while I light up, will you?" you would know that "Win" was somewhere in your immediate vicinity. "Dave" never came out of one of "Piggy's" or "Charlie's" lectures without having to rest his brain with a quiet smoke and it is entirely against his principles to carry matches with him.



As a pastime "Win" enjoys a good camping or fishing trip, and as master of the culinary department on all of these trips, he is "there" at making flap-jacks and burned cocoa. It will surely be a lucky girl who "domesticates" "Win," but that is a "page" in his history that need not be told here.



THOMAS JOSEPH DELANEY

"Tom" "Red"

Electric

Born Thompsonville, Conn., Dec. 6, 1895.
Prep., Enfield (Conn.) High School.

"Jeembers" is "Tom's" favorite expression upon occasions of surprise, satisfaction, joy, misfortune or sorrow. He has never been able to explain what that strange word means, but it is highly improbable that he will ever part with it.

Delaney came to us from Enfield, Conn., or was it Warehouse Point? Anyhow he did not let that fact hinder him, but started in his course with high ideals and firm resolves. He has by good hard work realized many of these ideals, which will surely open the way to the others. But we must not say too much in praise of him, as "Tom" is particularly averse to all forms of praise, especially when it is headed in his direction. He is truly conservative. If he has a hobby it is the "movies," but even Mary and Charlie fail to bring out any enthusiasm. When walking down street, a favorable comment on an exceptionally pretty face passing by would bring his answering remark, "About forty per cent!" We wonder if he will ever meet his ideal—one hundred per cent.

"Tom's" chief weaknesses have been machine drawing and a propensity for entering into all arguments, both great and small. This latter weakness has led him to brilliant victories in his many wordy battles concerning the present war with members of the staff at "P. & T.'s.

Aside from school and the "movies," Delaney's chief delight is to "get a kick at a football," or to "play pass." He showed his athletic ability when catcher on the famous Division "A" Baseball Team, during the Freshman year. His head proved hard enough to stand the worst foul-tips, and even the Varsity pitchers preferred to pass "Tom" up because the bright hue of his hair dazzled them.





LEON WINFIELD DUNBAR

"Dunny"

A T O Skull Mechanic

Born April 7, 1893, Canadensis, Penn.

Prep., Monson Academy.

Football (2, 3, 4); Baseball (2, 3); Assistant Advertising Manager Tech Show (2); Advertising Manager Tech Show (3); Treasurer A. A. (3).

"Dunny" came to Tech after a round of New England prep. school circles. In spite of his wanderings his preparation was a thorough one and in his four years here he has received more credit for doing less work than any other man in his class. His frequently stated hypothesis is that every subject on the Hill is grounded on three or four fundamental principles, and to know these is to know the course. Some time during the half year "Dunny" seeks a few minutes of leisure from his continuous "——" fest to learn these principles, and he has had little difficulty in coming through with flying colors.

"Dunny" is probably the most original man in his class when it comes to story telling, and many an hour has passed by unnoticed when "Dunny" has been relating his experiences while "Railroading" up in the wilds of New Hampshire.

"Dunnie's" course has not been narrowed by the limits of the class room; but in athletics, social life, and other school activities he has taken a prominent part. A level head, on a broad pair of shoulders, characterizes a student popular with his fellows and most highly esteemed by his intimate associates. He has worked against big odds at times, but his clear brain and active body have brought him through, and, for his battle with life, hardly a man in his class graduates with brighter prospects.





HERBERT NELSON EATON

Λ X A Σ Ξ T B Π Civil

Born Auburn, Mass., Nov. 4, 1894.
Prep., Rindge Manual Training High School.

"H. N." comes to us from another class, but he is none the less welcome for that. He is one of our few commuters, coming in from Auburn every morning, supposedly after breakfast. A fur hat and a *Boston Herald* make him easily recognizable even at a distance.

"Old Man Eaton's Son," as the Civils call him, is a true shark and one of the favored few who have never a worry about studies. At any Design period he may be seen breaking his back and the point of a 6H pencil, trying not to be distracted by the loud conversation of the rest of the slaves, who are trying to enjoy life as long as the smoke issues uninterruptedly from the office. In Structures he so far outshines the rest that "Prof." has been known to remark that Eaton ought to be a teacher, because of the bluff he can put up—and get away with it—on occasion. In English and Abstracts he certainly stars, and no one ever heard him speak before a class without realizing that "Herbie" knew that he knew what he was talking about. We hope that subsequent experience will not rob him of his self-confidence, which, when well founded, is always a valuable asset.

"H. N." doesn't say much about himself except in regard to his summer work, in which he has gained some valuable experience, which gives him a decided advantage over most of us. If he will take the same interest in men that he does in his work we know that he will go far in his chosen field, for he is unquestionably one of the ablest men in the class.





LESTER HARRISON ELKINS

"Heine" "Elk"

Born Dec. 5, 1894.
Prep., Westbrook High School.

In "Les" we have one of those big, husky fellows from some unheard-of place in Maine. He is quiet, naturally, and hence never makes much noise until someone is foolish enough to try to "put one over on him," and then he makes up for lost time with all his cute arguments. In spite of his christening his middle initial "H" really stands for "Heine."

Because of his size "Heine" could not escape either the Freshman or Sophomore rope-pull teams, and due praise must be given this stalwart son of the Pine Tree State for those two great victories. With all his experience at football while in Westbrook High it was not difficult to convince him that he owed it to Tech to try out for the Varsity. But, sad to relate, Tech did not play football just as they did in Maine, and so he quit. After all, the sole purpose of his sojourn in Worcester was to get his hands on that piece of parchment—so dear to us all. Since he did not like to waste his vacations studying for "make-ups" he has fooled the "Profs" "good and proper" each year.

As yet no one has ever been clever enough to get "Elk" to own up to any weakness toward the fair sex, but—we have our suspicions, for he has never failed to take advantage of every holiday for a trip down home to keep the Boston and Maine out of the receivers' hands. And when the calendar man was stingy or placed the holiday in the middle of the week, why "Elk" simply started early or came back late to avoid traveling in the holiday crowds.





GEORGE ARTHUR ESTABROOK

"Esty"

Δ T Electric

Born Clinton, Mass.
Prep., Clinton High School.

George drifted in from Clinton and then up Salisbury Street one day, and somehow became entangled with Tech. From that time on his connections with his home-town were destroyed, as he applied himself to books.

During his first three years as a student his actions were not such as to attract much attention; he came to the Hill with his assignments well prepared and then disappeared to prepare them for the following day. As a Junior Electric he was known as the man who could kill any of "Doc" Pierce's exams in "A. C." without winking an eyelash.

But while we weren't looking "Esty" slipped over something on all of us. When the remnant of the class came back last September we found that four months before he had given up his bachelorhood for the married life. Then and only then could we understand his close application to his books during the preceding years.

This year he has spent his extra time as Vice-Admiral of the Worcester Market, making a specialty of the "Farm." His technical training has helped him in this vocation to such an extent that he no longer makes use of the scales in selling articles, but, grasping a cabbage, for instance, he tosses it lightly into the air, counts its revolutions and its time of descent, assumes G=32 and says, "Madam, one cabbage, 2.2 pounds, just as sure as I ever took 'Piggy' Bird's course in Dynamics."



And last we must mention to you, dear readers, that "Esty" is the father of our Class Baby, born on the — of March, 1916. For this reason alone, George will remain a shining member of our class long after many of us have passed into comparative insignificance, but he deserves such recognition if ever a hard worker did, and his happy disposition will always continue to make many friends.



THOMAS WEBSTER FARNSWORTH, 5TH

"Tommy"

A T O Mechanic

Born Aug. 23, 1891, Brookline, Mass.
Prep., Tilton Seminary.

Cheer Leader (4); Track (1, 2, 3, 4); Tech Council (4); Glee Club Reader (4); Vice-President M. E. Society (4); Y. M. C. A. Cabinet (2, 3, 4); Vice-President Y. M. C. A. (3); President Y. M. C. A. (4).

Time, 9.35, any Sunday morning. A few yawns, a groan, and another week is started by our "Tommy." As he rushes into his clothes, he outlines his program for the week, even to the last minute. It is usually like this—"Church this morning, out to dinner this noon, South Worcester tonight; Tech Council tomorrow night; Dr. Exner Tuesday night; Y. M. C. A. Wednesday night; Glee Club Thursday night; Mechanical Engineering meeting Friday night; study Saturday afternoon and night.

But don't think, gentle reader, that "Tommy" slights his studies. Quite the contrary, for there are few men on the Hill that give their lessons a fairer shake than he. Each task has its place, even to the morning orange, or the evening chat.

Almost all of us possess two sets of morals, those by which we measure others, and those by which we measure ourselves. Farnsworth is no exception, but he has just reversed these rules. With a lack of affectation that is a part of his simplicity of character, he holds himself to a line of conduct that is above reproach. To the more unfortunate he is most lenient, tending to influence them to the right by example rather than by word

No write-up of "Tommy" would be complete without some mention of his trip to Brazil last summer. His title was "Supercargo" of the good ship "Edward Pierce," but his occupation chiefly cargo. No matter what the topic under discussion—Politics, Religion, Ethics, or what not, in comes—"Now in Brazil they—" and before you know it you are learning how many times around the earth Brazil's coffee beans would extend, if placed end to end.





ERIC HARRY FORS

"Eric"

Θ X Mechanic

Born Worcester, Mass., Dec. 29, 1893.
Prep., Borlange Real-Skola, Sweden.
Football (3, 4).

As can be seen from the heading above, Eric travelled over the greater part of the world before he singled out the City of Worcester and settled here. There is only one reason why he should have done this and that was the nearness of good fishing grounds at Lake Quinsigamond.

School seems to be only a necessary evil to Fors; he measures time by the number of days before he can doff his school clothes, slip into some others more suitable for this occupation, and hie himself to the wooded shores of the Lake. It is no amateur fisherman that he can be compared to; he easily takes his place among the experts of the disciples of "Ike" Walton.

Just the same as with all fishermen, good and bad, a couple of better stories come with each good fish. Sometimes these stories are accompanied by a picture or two, presumably taken on the spot. As one instance may be given the characteristic which he passed in for the AFTERMATH. Although he claimed the fish in the picture was caught at the Lake, we didn't dare use it, as we would surely have come under the head of Nature Fakirs if we had.



Once in a while Eric comes to Tech to speak a word or two, but there is so much in those few words that he doesn't have to come often. Throughout his four years with us he has earned the reputation of being a plugger with a clear-cut brain besides. His work is measured not in the time put in but the results obtained, and this attitude cannot but help place him among the best in his future profession.



EVERETT HASKINS FRANCIS

"Ev" *"Lizzie"*

Φ Γ Δ Mechanic

Born, Jan. 10, 1894, Fall River, Mass.

Prep., B. M. C. Durfee High School.

Class Secretary (1, 2); Glee Club (2, 3, 4); Manager Glee Club (2); Manager Musical Association (3); President Musical Association (4); Class Vice-President (4, first term); Treasurer A. S. M. E. (4); Tech Council (4); Interfraternity Council.

"Ev" hails from Fall River and the B. M. C. D. H. S., and, like every loyal member of the Fall River Club, he knows what the letters stand for.

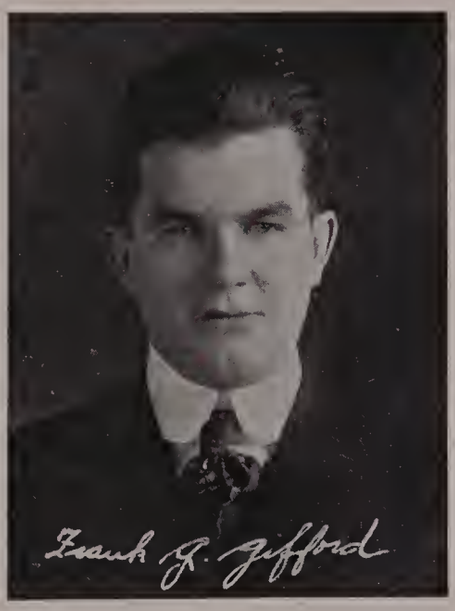
For four years he has romped along in pursuit of knowledge without once stubbing his toe, and with an apparent ease which has caused "old man Knowledge" some apprehension and lost sleep. During the lulls in the pursuit, he has mingled in affairs pertaining to the musical association and has found time to put a little of the muse in music and much of both in amusement.

Nothing pleases him more than to exact from would-be producers a complete guarantee for every man the Association can muster, and then to inflict upon their hapless audiences the combined terrors of Glee Club, Mandolin Club and Orchestra.

During the last half of his Senior year, "Lizzie" has been putting in his week-ends at "Charlie's Farm," in an endeavor to test out one of Mr. Monroe's water turbines. There at Chaffin's he could be found donned in overalls, with an oil can in his hand and a Prudential pipe in his mouth—supremely happy.



He has administered with satisfaction those offices which from time to time have fallen to his share, and his genial smile, combined with a willingness to co-operate in Tech's activities, have won him an easy popularity and a lasting friendship among his fellows.



FRANK GARDNER GIFFORD

"Giff"

A T Ω T B Π Mechanic

Born June 7, 1894, Swansea, Mass.

Prep., B. M. C. Durfee High School, Fall River.

Interfraternity Council (4).

Gifford comes from Swansea. That is, for him at least, the center of this universe. If anything wonderful ever happened in the world, something more wonderful has happened in that Bay State metropolis. It has the coldest winters, the strongest winds, the biggest fish, and by his own example, the greatest story-tellers in the world. A veritable Munchausen, "Giff" regales us hour after hour with tales of Swansea, with now and then the prod of a clever listener, regarding his grandfather's exploits back in New Hampshire.

But the loyalty he has thus shown does not stop with his home town. In whatever "Giff" has attempted he has stuck to it with a willingness and a whole heart, and many are his friends gained by unselfish devotion to his duties.

The studies here have worried him but little. Four years ago he knew only that Tech had a reputation for hard work and little recreation for those who profited by their course. But "Giff" has a mental capacity equalled by few, and his career has demonstrated the opposite. Ten minutes' study to him means as much as an hour of plugging to the next man. His time is taken up with bowling, "movies" and cards,—both auction and solitaire. Many a night it is morning before he leaves his game, and if he goes two successive days without a picture show or a few strings at the alleys, he has established a record.

His class room attempts have been admirable. Until the final lap the "profs" were completely fooled by his innocent manner, but it took "B. A." to find a weak spot, and "Giff" came home one month with his first and only E. His crabbing over getting screwed every day is of little avail, for all have come to know him as a shark, though not in the least a grind. A good mixer, a true friend, and a fine student, "Giff" has the qualities to bring him joy and success always.





ARTHUR ELLSWORTH GORMAN

"Art" "Gor"

Skull ΘX Sanitary Civil

Born Haverhill, Mass., Nov. 18, 1892.

Prep., Haverhill High.

Track (1, 2, 3, 4); Junior Marshal (3); Interfraternity Council (4, 1); AFTERMATH Board.

Erin Go Bragh!!! and "Art" Gorman sailed into town. Where from? Why only one town could boast of such a product—Haverhill. But we'll forgive him for that, for he has lived down that stain and has risen to a height attained by the smaller percentage of any class.

"Art's" forte is in track, and by breaking a long-established record in the pole-vault, he has put his own name and that of the class onto the records, of which we shall be proud. His election to Skull was a natural result of his ability, reliability, and general popularity. In his quiet, unostentatious manner he has won a place, enjoyed by few, in the respect of students and faculty. Put "Art" in a crowd and you would have to see him to know he was there. His words are few, but when he speaks even the "wiseacres" pay attention.

But leave "Art" alone in his room, and anon! the clear, sweet, delicate strains of an Irish ballad come floating zephyrlike, charming all who hear. What matters if it is not always true as to harmony, it is the expression that lends enchantment.

As to work—it is second nature to "Art," and he would sit up all night rather than leave a job unfinished. However, like a great many other virtues, it works both ways, as he would sleep all day rather than get up and start something. But once awake and on his feet and his eyes open, he is ready for any and everything that comes his way. And as years go by we are sure that the greatest of barriers will crumble in his hands.





HAROLD CLARK HICKOCK

Λ X A Electric

Born June 7, 1895, North Adams, Mass.
Prep., Drury High School, '12, North Adams.

Way up in the hills in the western part of the State is the cozy little city of North Adams. It was here in the bracing air of the Berkshires that "Hick" prepared for the four-years' fray just ended.

Looking back over his four years among us, two things stand out prominently: his attention to his diet and the great attraction of the fair sex. The first has been manifested regularly three times a day. Nothing was too good for him, and occasionally some things were not good enough. But if any one mentioned apple sauce, a smile would sweep over his face which will never be duplicated until he sees the golden gates swing open. He could eat apple sauce three times a day and then wonder if he could not get some more before crawling between the sheets.

As mentioned above, however, food was not the only thing that "got 'Hick'." In about the middle of his career at Tech he became much interested in a certain stenographer. "Well, she IS a peach," he used to say, and we all agreed with him. But to Harold's great disappointment, she found a position that suited her better, and was missing when he returned last September. But that did not break his heart—not by thirty gun shots!

He has ever been a habitué of the tennis courts at Newton Square. But this year a second hobby has made its appearance, viz., telephony! By mid-years his interest had become so intense that (believe it or not) he would actually stop in the middle of the enjoyment of a dish of apple sauce to answer a call.

Harold has been a quiet, good-natured fellow and a faithful worker, and thus we find him on the final roll of the Class of 1916.





ROLAND DREW HORNE

T B Π Civil

Born Worcester, Mass., March 14, 1895.

Prep., Worcester Classical High School.

We don't know why Horne came to Tech unless it was to avoid the distraction of the fair sex while he was engaged in the pursuit of knowledge. In his opinion, such trifles should not be allowed to interfere with the more serious things of life. Meanwhile, more than one maiden sighs to find herself ignored by one with such charming eyes and winning ways. However, on second thought, we are not so sure that he practises what he preaches. It is frequently reported that he has been tobogganing, and we are not so green as to think that he goes alone.

As a thesis "Rollie" has taken a subject which required him to make daily trips to the City Hall Tower, a feat which has given him a great amount of publicity in the local newspapers, one of them remarking in headlines on the courage which he displayed in making the ascent during an April gale.

Horne is one of our quiet men. He never says anything harsher than "I told you so," but there are times when this remark is not as harmless as it sounds. He is modest, too. It is a positive pleasure to watch him blush and stammer as he tries to explain how he "bulled" in that last test in "Structures."

In spite of such handicaps as these, it cannot be denied that he has made good at Tech. He has shown conclusively that he has those qualities of character which make for success. So we expect to see him make a name for himself if he will only blow his own "Horne" a little louder. And in leaving Tech, he will take with him the respect and good-will of every one of the men who have know him here.





ARTHUR KELSO INGRAHAM

Mechanic

Born March 26, 1894, Charlestown, Mass.
Prep., Newton Technical High.

Arthur Kelso Ingraham, though better known to us as "Doc," expressed his desire to matriculate at Tech along with the rest of us 'way back in September, 1912.

Perhaps the two things that have contributed most to "Doc's" fame at Tech are his bicycle and his power of argumentation. Seldom has the weather been bad enough to compel him to put his bicycle aside and walk, whence the reason for the former statement. His previous experience with gasoline and steam automobiles, along with his knowledge of the workings of steam boiler plants, has served him so well in furnishing him the desired information to set his erring classmates right, that he has never been able to resist a chance to persuade them of their error by means of his argumentative power. Many times some of us have thought that the ideas upheld by him were wrong, but when the final showdown came, "Doc" was generally right.

"Doc" says he can stand a good many things, but when an instructor tries to show him how to shovel ashes from a firebox, that is more than he can stand. Why? Because he holds a fireman's license of equal rank with the person who tried to teach him how to shovel ashes.

In conclusion, it might be said that anyone who understood his peculiarities, some of which we all possess to a greater or less degree, could not fail to find a true and everlasting friend in him.





WILLIAM KINGSCOTE JEALOUS

"Bill"

Chemist

Born Pittsfield, Mass., March 22, 1894.
Prep., Coburn Classical Institute, Waterville, Maine.
De Meritte School, Boston, Mass.

It runs in "Bill's" family that the sons are tall and straight, and "Bill" has been no exception, either on account of the air and environment of Pittsfield, Mass., where he was born, or on account of the years spent in North Vassalboro, *somewhere* (?) in Maine. He has always lived as far as possible from the school he attended, as in Maine, where he had to go five miles each way every day to the Coburn Classical Institute at Waterville; or during his courses at Tech, when he has commuted daily from the wilds of Rochdale.

There can be no doubt that it was "Bill's" great desire to "delve into the mysticisms of Science," (to quote the words of Our Chief) that led him to take up the Chemist's life at the Institute, since no other course would afford such opportunities for applying his ready, practical knowledge and skill in experimental work.

Jealous never spent his summer vacations in idleness; during that time in three different years he went to sea on the schooner "Ed. J. Lawrence," and during the past two summers he has been at the Military Instruction Camp at Plattsburg, (he is now a First Lieutenant). His first summer while at Tech was spent on a trip to England.



"Bill's" name will be handed down to future Organic Classes by the words of "The Kaiser," as he will hold up for inspection during the course of his lecture a bottle of "*bee*-uti-ful crys-tahls" and will say, "Here, gen-tle-men, is a sample of Ver-o-nal pre-pared by Mister William K. Jealous of the Class of 1916,—a master-ly syn-the-sis of this most *in*teres-ting subs-tance."



WILLIAM BARTLETT JONES

"W. B." "Jonesy"

Σ Ξ Chemist

Born Quincy, Mass., March 14, 1895.
Prep., Milford High School.
Cosmopolitan Club.

"W. B." was born to be a chemist. That fact became evident the first time we heard him recite in Chem. I. Since then he has proved to us that the first impression was not deceiving. "Jonesy" was with us but a week before we found that he had an appetite for study, for no matter what the course, whenever a question was asked that made the rest of us gaze blankly out of the window, we could generally rely on "W. B." to keep the standing of the division up where it belonged.

Saturday would generally find him missing with no trace left behind, but every Monday morning when we arrived at our usual eight o'clock with Hughie, "Jonesy" would be among us again. He said he went home to "see the folks." We sometimes wondered—but "Jonesy" insists that it was his folks he went to see, so we must not jump at any other conclusions.

One of "W. B.'s" axioms is never to believe any statement until it has been proved, consequently it was he who corroborated the observation that it is inadvisable to distil aniline with a free flame, and he incidentally proved Hughie's Law, "In case of fire gain your presence of mind, remove the source of heat, rescue the thermometer, and use sand freely."



"W. B." is a faithful worker, willing to help any one if he can. He has made friends with us all by his ever congenial spirit.



JOAQUIM DOS REIS JUNQUEIRA

"Joe" "Nhonho"

Electric

Born April 15, 1895, Minas, Brazil.
Prep., Gymnasio Leopoldinense and Worcester Classical High School.

Cosmopolitan Club.

Not content with his early education, "Joe" travelled several thousand miles to finish at Worcester Tech. A year in the public schools of Worcester gave him a working knowledge of English, and he joined the Class of 'Steen. The best is none too good for him, so, of course, he is an Electric. In class or in lab, "Joe" has been a quiet, earnest worker. Although never a shining light in his studies, he has had consistently good marks, which prove that he didn't come to North America for the sea voyage. As a photographer, too, he has shown marked ability.

"Junqueira" has been the stumbling-block of many an instructor. "Coombsie," of course, readily reeled it off, but many another instructor has faltered out some strange substitute for it, or even skipped him in class to avoid that unpronounceable (?) name. Up to this year "Joe" has not been seen much with the fair sex, but last winter he suffered an apparently serious dislocation of the heart, which so far has resisted attempts (?) to cure it. "Joe" denies that there is any one girl seriously concerned, but there is said to be good proof to the contrary. Anyway, he has begun to talk of a P. G. course, so you can judge for yourself.



He will probably return to his native land as soon as he has become saturated with American engineering, and the best wishes of his class will go there with him, for "Joe" has shown that he possesses every factor which will be necessary for success in his profession.



ROY HERMAN KIENLE

"Dutch" *"Roy"*

Σ Ξ Chemist

Born Easthampton, Mass., April 27, 1896.
Prep., Williston Seminary, Mass.
Cosmopolitan Club.

Williston did well when it turned "Dutch" over to us; his enthusiasm outgrew that institution. No matter where he is, you are conscious of his presence, through song, whistling or general conversation. As an orator he holds first place among the chemists, and will long be remembered for the entertainment he furnished in English III. Of a very versatile nature, he can sing, whistle, dance, fuss, lecture, expostulate, develop theories, bone, and still "just get by." For purely physical activities, he is a strenuous advocate of football, baseball, basketball, and in the ring has won the honorable title "Flying Dutchman." "Dutch" has only lately surprised us with his wonderful advance in the social whirl, which might constitute a novel "From Du Pont's to Wellesley via Air Line." His summer experiences have been so broad that he is our consulting authority on acids, explosives and powders, of which he has discovered the scented variety exerts a catalytic effect inversely proportional to the square of the distance between the reacting agents.

When it comes to the real problems, "Dutch" is there with bells on. He has the mind and the physique to tackle and master them. His kind-heartedness is most apparent and his friendship can be relied upon, as those who know him best can testify. Of German extraction, he has that characteristic ceaseless energy, coupled with ambition unconfined, and both these qualities are ever apparent. Surely these will contribute greatly to his final success.





WILLIAM HAZARD KNOWLES

Φ Σ K Mechanic

Born Jamestown, R. I., April 10, 1893.

Prep., Roger High, Newport, R. I.

"Bill," our Mechanic representative from that highly fashionable summer resort, Newport, R. I., is no doubt one of the most original men in Tech at the present writing. The above statement does by no means refer to his eccentric acts, far be it from that, but rather to his continuous supply of jokes—every one with a bona fide point. To "Bill" belongs a disposition that makes many friends, for if ever there arises a laugh from the Senior Mechanics, you may rest assured that you will find our "Bill" the center and the cause of it all. The possessor of good, sound, common sense, coupled with a steadfastness of view, portrays him as a man of whom we are proud. An incident in which our friend was mistaken for a minister's son well illustrates his humbleness of spirit; and although this was in the dim past, he still preserves that quiet demeanor. However, contrary to the above, his ambitions have always been high, for even in childhood he aspired to be an aviator. How many hair-breadth escapes and dare-devil escapades he has figured in while pursuing his chosen hobby we will leave to the reader, who may look for evidence in the lower right hand corner of this page.

To say that, by his frank and unselfish manner, he has endeared himself to us is superfluous, for we shall truly miss that omnipresent smile. If obtaining an education on one's own resources means anything, we can see nothing but the brightest future in store for our classmate "Bill."





LEONARD MAYNARD KRULL

"Leonard"

Mechanic

Born January 26, 1891, Warns, Holland.
Prep., Mount Herman.
Glee Club (1, 2, 4).

Any visitor to "Johnnie's Domain" on an afternoon when the "Greasy Mechanics" were having Forge Practice, would see a distinguished looking gentleman, clad in a long gray duster, arrive at one-seventeen and start to work on a complicated part of a steam engine. One would naturally inquire if this were the Instructor.

No. This is the "Late Mr. Krull" arriving at his accustomed hour. The steam engine is merely a plaything to keep his skillful hands busy, as he would easily complete a semester's work in Forge Practice during any afternoon. Do not infer, gentle reader, that Leonard's tardiness is due to laziness or lackadaisical habits. It is due to the fact that our hero during the twenty-four allotted hours accomplishes at least twenty-eight hours of solid work. And this is the more strange since he spends at least sixty minutes a day expounding the moral side of Kaiser Bill's latest accomplishment.

Leonard's social achievements are on a par with those of a technical nature, as his successes with the Glee Club, at Dancing School, and with amateur theatricals testify. It was he who started "Sweet Adeline" or "I've Been Working on the Railroad" when his division was hanging onto straps bound for Chaffin's, or sitting in dejected gloom waiting for B. A.'s steam exam. And his whistling is the envy of many; even "Ding" enjoys it.

His classmates await great things from him.





ROBERT ELLIOTT LAMB

"Bob"

Electric

Born Sept. 30, 1893, Worcester, Mass.
Prep., West Boylston High School.
Glee Club (1, 2).

"Bob" hails from the suburbs of Worcester, a little town that is known for two things—himself and "Red" Cummings. Of the two Lamb has shown himself to be the sticker, having early placed himself aboard the "Play-safe" special, while our old friend "Red" left our halls of learning to absorb knowledge elsewhere.

"Bob" has proved himself of a quiet nature, with an abhorrence of brass-band publicity. When he is present, he is never heard from unless a fellow mentions the poor service of the Consolidated. Then in jumps Lamb and no one can successfully combat his arguments. In that "6¾" of his is stored a string of figures and dates and general knowledge, on which he can draw as needed, and can give correctly the few times that his car has been on time.



At present his only hobby is his thesis. In following out his research work, he has created such a mammoth sensation throughout Clinton and Sterling that the inhabitants meet him with shotguns. He has labored hard in their interests, but they fail to appreciate it. As one of them put it, "Them air Tech fellers air so smart we country folks gotter look out."

At the present time, however, "Bob's" soft persuasive ways, coupled with a sufficiency of diplomacy, have completely altered the country-folks' opinions and "Bob" is winning out.

For recreation, he usually hies into the Pleasant or the Park with his running mate, "Tom." Directly after the noon class, the two of them pass swiftly down the Hill, and down town via the High School. A hastily eaten meal and then to the movies until 1.50, when a speedy return journey just makes a 2 o'clock for them.



HAROLD COLGROVE LEONARD

Electric

Born Oct. 14, 1894, Worcester, Mass.

Prep., Worcester South High School.

The map on this page is not that of Philadelphia but that of "Quaker" Leonard. The deeds of this illustrious son of Wm. Penn are not strictly in keeping with the precepts and doctrines of his worthy sire. Surely Bill P. would have frowned on the tripping of the light fantastic at "Ma" Day's Salon. In his babyhood at Tech he was contented to disport himself at all the church socials and to fill in the spare time in the pursuit of book knowledge. Now he has graduated from the juvenile recreation of seeing "D. S." girls home to the more exhilarating dissipation of escorting Wellesley girls on a tour of Green Hill Park and other points of interest in Worcester. This riotous living and late hours have been conducive to long, listless, lingering in slumber sweet, which further necessitates the snatching of his breakfast in installments between classes.

Unobtrusive, industrious and temperate, he has been able to "frig" his "Lab" experiments in marvelously short time and to speed on his way to the Worcester Market where he served in consulting capacity of efficiency engineer in their sales department. During the summer the Worcester Electric Light Co. was able to improve their organization by the addition of Leonard to their corps of engineers. Thus his engineering ability has asserted itself while he was yet absorbing the truths of science at the Institute and no doubt this will stand him in good stead as he ventures forth in June, a sheepskin in one hand, "Bedell" and " 'Doc' Pierce's A. C. notes" under his arm and a sandwich in his vest pocket, to claim a position in the engineering ranks of men.





VALENTINE BROUSSEAU LIBBEY

"Lib" "Cheese" "Laura Jean"

Φ Σ K Civil

Born Feb. 14, 1895, Whitefield, N. H.
Prep., Central High School, Springfield, Mass.

Tech News (1, 2, 3, 4); Advertising Manager (3); Business Manager (4).

Libbey's greatest asset is his size; his greatest detriment, his name. Born on one St. Valentine's Day, a score of years ago, in Northern New Hampshire, he came to Worcester, impregnated with the verdure of that fair state, and bravely started his career in the Worcester Polytechnic Institute. During the last few years, his home has been in Longmeadow, which, for the benefit of the reader, is the name applied to a half dozen houses near Springfield.

After becoming properly acclimated, "Lib" settled down to the usual routine work of the Institute. In addition to "getting by" he found time to go out for the *Tech News*, and held the positions of Advertising Manager and Business Manager, the duties of which he carried on very successfully. The Civil course looked good to "Cheese" and the Sophomore year he started to prepare himself for a Civil Engineer. This was carried on in his usual easy manner; if there was no pleasure to intervene, he usually learned his lessons.

Libbey likes to argue, and his ordinary conversation is generally carried on in a loud, positive voice. He has the reputation of being one of the noisiest men in the drafting room, and his good natured roaring does much to pass away the otherwise rather tedious hours.



Valentine will succeed in his work, as he has in school. His great size, his good nature and his willingness to work will be no small aid in helping him to attain a high place in the professional world.



ALBERT EUGENE LUKE

"Bert" "Blink"

Φ Σ K Mechanic

Born March 17, 1894, Putnam, Conn.
Prep., Putnam High School.

Scene—Putnam, Conn.
Population 827 + or—

Our hero is seen stalking majestically along the spacious boulevards. Chorus of Natives: "That's him. That's young Luke. He's been up thar to Woster Tecknical Academy goin' on four years now. They say he's astudyin' to be an engineer or fireman or something like that. Well, he's a clever lad anyhow."

But little do these people realize how much that blond head does contain, for "Blink" has made good use of his time here at Tech. Notwithstanding the fact that 9 P. M. usually sees him safely tucked in below the covers he has found ample time to "get away" with his studies in a manner which has made some of the rest of us a trifle envious.

"Blink's" favorite diversion is bid-whist or auction, and it is a fact that on certain occasions we have heard his musical voice "bid a lilly" at some wee sma' hour in the morning.

Let it not be inferred that Luke is unathletic because his favorite pastime seems to be of a sedentary nature, for it is on record that in the dim distant past, when his mighty class was striving for the right to discard their badge of childhood, "Blink," urged on by unseen powers, essayed to capture honors for the Class of 1916 in the Fall cross-countries. And although we did not greet him as one of the winners, he was at the tape in time to see the finish, contriving this by the simple expedition of running over the first hill to his base of supplies, donning more seasonable attire and strolling back in time for the cheering.



But it is not as an athlete, a student, or as a card player, that we will remember "Blink," but rather as a friend, true and loyal. His cheerful, unassuming manner will hasten the success which is sure to result from his thoroughness and steadfastness.



JOHN DONALD MacIVER

Σ A E Skull Civil

Born Feb. 12, 1891, Bury, Quebec.
Prep., Lowell High School.

John D. does not come from the bonnie braes of Scotland yet he was born under the protection of the Royal Lion of England in the Dominion of Canada. In these days of international war he is doing his best to keep dark the name of the country of his birth, since there has been some talk of conscription and Canada has already reduced the minimum height of candidates for military service by several inches. "Mac" entered Tech with the Class of 1915 but didn't like the company so he dropped back into a better class. "Pa" happened to notice that "Mac" had acquired that popular habit of dropping back a year and with his usual alacrity tried to drop him back another year, but "Mac" knew when he was well off and "Pa's" efforts were of no avail. "Mac" is hardly what you would call a brilliant student, but you will have to admit that he is a steady and conscientious worker. He is one of those fellows that you can't help liking. If he likes a fellow he always shows it; if he doesn't, never. He has never stood out above everyone else in any branch of the school life, but everybody knows him and his general good nature and popularity were responsible for his election to Skull. For four years he fought shy of "s'iety" but in his last year his true nature exerted itself and he is now well recognized as one of the social bears of the Class of 1916.



"Mac's" appearance in the Lake cars with large bottles under his arms, indeed, might call forth some suspicion, but we all know what he was up to. It was nothing but Lake water, obtained by hard and cold endeavor, chopping through the eighteen odd inches of ice, in the pursuit of bacteria.



DONALD BROWN MAYNARD

"Don" "D. B."

Θ X Mechanic

Born Dec. 21, 1892, Northboro, Mass.
Prep., English High School, Worcester.

Tech Show (1, 2); Half Way Thru Committee (3); Junior Prom Committee (3); Dramatic Association Secretary (4).

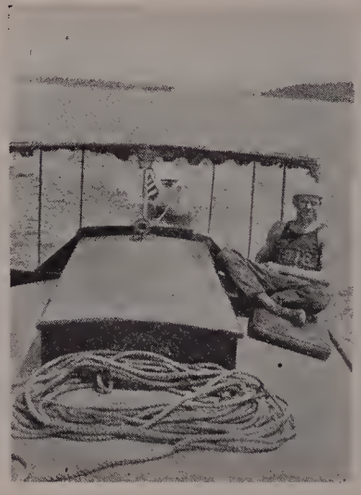
Ha, ha! Ha, ha, ha! Ha, ha, ha, ha, ha! And so on. That's "Don." He has been gifted with the most catching, hysterical laugh ever produced and shown by man, and it has stood him in good stead, proving an A-1 attraction for the opposite sex.

The very first thought of "Don" recalls two things: "rough-housing" and "steam." As far as the former is concerned it invariably happens when he is all cleaned up for some social event. Current opinion says that in some people the "wearing of a white collar irritates a certain set of nerves," which explains Maynard's repeated pugilistic tendencies. Once started, the "R. H." is kept up until his luxuriant foliage falls over and gets into his eyes; then, and only then, can the lion be subdued.

When not occupied with the above exercises, "Don" is probing the "whys and why nots" of little "Beeteeuse," and seems to be perfectly (dis)satisfied with his task.

In the "hot old summer time," "Meester" Maynard hies away to the North Shore and whiles away his time learning the "Longwood stroke," or the eccentricities of a motor boat, or maybe studying the correct way to enter Portland Harbor by moonless-light.

In fact, "Don's" experiences, be where they may, are always worth hearing about, and the best part of them is that they are not "pipe dreams."





JOE LINCOLN MANSON

"Red" *"Joe"*

Φ Σ K Mechanic

Born August 30, 1894, Scituate, Mass.
Prep., Scituate High School.

"Worcester and Prosperity" was the first thing that met "Red's" eye when he first set foot on Worcester's rough and rocky sidewalks.

To say that he has not helped immensely to uphold this slogan set forth by the business men of Worcester, would be far from correct. Of course, it cannot be implied that he has made everything prosper during his four years' residence, but as far as dentists and taxi-cab drivers are concerned he has surely done his share.

"Red's" peace of mind is something to be envied. Even after A. Wilmer and "Joe" Phelon had each given him a final E he was undisturbed and gave no thought toward taking makeups. However, the day before the last chance to pass off conditions he suddenly came to, absorbed the intricate subjects and passed them off easily.

Alas! if earlier in the game of "Tech," "Red" had only realized the close resemblance of his brain to his hair (when brightness is considered) he might at the present time be holding down the president's chair in a few of the honorary scholarship societies. This fact was deeply impressed upon him in his Junior year when he received an A in B. A.'s steam course. From that time on the rest of us had a hard time keeping up with Joel.



We shall miss "Red" above all for his witty sayings, his telephone calls, late at night and early in the morning, and his endless tales of "What was down at 'Ma' Day's last night."

We might wish "Red" luck as he enters upon a new life, but what is the use, he has always been overburdened with it; to wish more upon him would be superfluous.



HAROLD ARTHUR MAXFIELD

"Ham" "Max"

T B Π Σ Ξ Electric

Born Sept. 24, 1894, Lowell, Mass.

Prep., Lowell High School.

Y. M. C. A. Cabinet (2).

Yesterday the Faculty was teaching "Max" a few things, educationally; today he is teaching a few of them some things physically. Which being translated means that Maxfield is a crackajack gymnasium instructor and has been at the head of classes containing members of our Faculty for some months at the Worcester Y. M. C. A.

Continually since his childhood "Max" has been doing stunts, and doing them well. Nine months in the year he has been proving his worth as an honor man at Tech, while his Summer vacations have been spent as the conductor of a Boys' Camp at Lake Nabnassett, at which place is situated "Welcome Inn" with many "good people," according to his own stories.

To the rest of us he has seemed at all times rational, with one exception—6.45 to 7 every morning in the Winter—when he takes his cold plunge after breaking the ice. Summer and Winter are all the same to him in this respect. A day well started is always started as his picture shows.

"Ham" and his wife "P. H." claim all sorts of advantages for their suite of rooms, such as two kinds of heat, hot and cold, and two kinds of water, dirty and clean. This may seem a strange combination to those uninitiated into this happy pair's hospitality, but there is no doubt at all of their connubial bliss.





CARROLL FULLER MERRIAM
"Cy"

Σ Ξ Mechanic

Born South Framingham, Feb. 25, 1892.
Prep., Phillips-Exeter; Harvard, S. B., 1914.

Graduate Assistant (4).

"Say you, get a step-ladder."
"There isn't any."
"Well, then go get Merriam."

If "Cy" Merriam didn't have another redeeming virtue he would be invaluable around any establishment where the walls were over eight feet high.

But sad to relate he does have so many other good points that this most apparent one is often lost sight of. "Cy" came to us from Harvard, having graduated from that institution in the class of 1914. He had thus already procured for himself an Academic training and according to his own story needed but a Technical training to make a finished product. This he obtained in A-1 style, and his energies were so applied that his knowledge of a subject soon out-rivaled his Instructors. Unlike a great many such students he did not care to keep all that he had learned under his hat but preferred to share it with any or all of his fellow classmates who were in trouble. Many have been the colloquiums at "Cy's" room for the benefit of wayward students in order that they might have a better chance of passing the exam the following day. Merriam has a way of making even the thickest of us see the whys and wherefores of any question whatsoever.



His hobby is anything which has to do with a power-house. Be it a broken-down water weigher or just a "buggared" gage the height of delight for "Cy" is to be given a chance to take the beast apart, perform an autopsy on its insides and return them all to their proper places in record time.

As a Graduate Assistant "Cy" has been most valuable as a handy man whenever it became necessary to move a valve or other mechanism up near the ceiling. Whatever the distance, a little more stretch on his part would always reach the spot, and make a step-ladder entirely unnecessary.



WENDELL PHILLIPS MORRISON

"Fusser"

Θ X Civil

Born Windsor, Vt., Feb. 21, 1893.
Prep., Springfield (Vt.) High School.
Assistant Manager Tech Show (3); Manager Tech Show (4).

Named for one of America's great poets, and enriched with all the scholastic honors his high school could bestow upon him, Wendell Phillips Morrison registered at Tech in the fall of 1912, prepared to put Windsor, Vermont, on the map once and for all. But alas, "What's in a name!" for less than ten days of life at Tech had passed before all of us discovered Wendell's weak point and that illustrious "Wendell Phillips" was lost and our new arrival from the Green Mountain State was dubbed "Fusser," a name which has stuck to him ever since. We need not go into details, except to say that as a Freshman he knew more of Worcester's "fairest" than any other man at Tech and his popularity has been an ever increasing one during these four years.

"Fusser's" mastery of expression when little things irritate him has furnished hours of comedy for the Civils. When we remember how unmercifully he used to mutilate the English language, whenever a slip of a tee square or a drop of red ink marred an otherwise perfect drawing, we wonder why he dedicated himself to civil engineering instead of politics or newspaper work. Another long-to-be-remembered detail in Wendell's rounded personality is the clever pocket system of card indexes which carried him thru "Reddy's" railroads course with honors and helped him thru many a tight place in other courses.

During his four years at Tech "Morry" has indeed been an active man and a hard worker for Tech and his friends. In his Junior year he was general manager of the Tech Show. Always willing to help a friend, and ever loyal to "Old Tech," we look to Wendell for big things in this world of ours.





PHILIP PIERCE MURDICK

"Cupe"

Φ Σ K Chemist

Born Rutland, Vt., Sept. 24, 1894.
Prep., Rutland High.

Tech News (1, 2, 3, 4); Subscription Manager (4).

When "Cupe" decided to become an engineer he had to leave civilization and come down to Worcester for his education. "Where is civilization?" According to "Cupe" it is in Rutland, Vermont, the Green Mountain State, where Ethan Allen and his followers used to bite nails for indoor sports.

Murdick is a Chemist by profession, but his adaptability is shown by the way he sharked Pattern Making. A trusty jack-knife and the best man in the class to follow, was all our artist needed to rank second in the class in speed, even if not in quality.

"Ambition" is another of his sterling qualities. One would never believe this to see him stretched on his back, Chemist manner, on a pleasant holiday, but 'way down in his heart he's wishing it were a schedule day so that he could delve further into the mysteries of science.

"How are his morals?" you ask. Of the three evils of Tech men, Wine, Women and Song, he indulges in none. The first is too expensive, the second have no charms for this stony-hearted youth, and as for the last "Forty-nine Bottles," accompanied by one string of a violin, is his song.



But to be serious. A man usually counts as his best friends those who stick to him, come what will. "Cupe" is one of these and when he can be of assistance to anyone, be it a Freshman with a question, or something of greater moment, we can count on him to be there, and this is one of the greatest qualities that help to make a man.



JOSEPH EDWARD MURPHY

"Jim" "Joe" "Murf"

Electric

Born Hudson, Mass., May 5, 1894.
Prep., Hudson High.

President Catholic Club (3).

If you ever go to Hudson you will hear of "Murf," possibly some good of him, for in the days of Hudson High School he made a name for himself as a baseball manager and football player. Then he turned his mind Techwards in search of fame and some education. He got the latter (may be) easily enough in spite of a few skeptics, for "Murf" could always bridge himself over the rough places with a little artful "bluffing."

Nothing much was heard of "Murf" during his Freshman and Sophomore years; but in his Junior year he was instrumental in organizing the Catholic Club at Tech and served the club as its first President.

"Jim's" impulsive, precipitous manner endears him to all of us and gives evidence of an active brain. He is a good entertainer and well versed in that so-called art of "light talk" that often surpasseth seriousness with the gentler sex. He has a mind which when once made up neither you nor I nor even "Red" Delaney can change. We admire him because of his stability of character, his conscientious work on the Hill, and his royal Tech spirit. And when all is said and done he is a fellow well met and a "powerful" good friend to have.



He is one of Pete's gang, and as such, has participated in all its activities, from copying a difficult hydraulic's report to a faithful attendance at cabarets in New York City. His Irish humor will be missed after our parting in June.



LUKE LEWIS NAKASHIAN

"Luke"

Mechanic

Born April 29, 1891, Worcester, Mass.
Prep., Worcester English High School.

Luke is the kind of a fellow who believes in working hard and not talking about it; on this account very few of his classmates knew the extent of his labors while at Tech. His business-like attitude and winning personality are responsible, in a large measure, for his holding the class record of working at the greatest number of jobs at one time and coming out on top every time.

His skill as a draftsman needs no further comment than to remind one of his excellent work on the 1917 poster and of his appointment as Instructor in Freshman mechanical drawing.

We have often wondered how he got his school work. Here is a glimpse of his method: Having slept from 4 to 7 A. M., he would start for Tech, doing his "Poly Sci" on the way up on the trolley, unless he happened to be busy with that famous portable drawing board. While "Jinny" was busy expounding on the intricacies of this same subject, he would snatch another half-hour's sleep. During the following recitations he found time to pay attention and still do the following day's work.

Luke left us after the Junior year to accept a responsible position with S. K. F. Ball Bearing Co., greatly to our sorrow as well as to the regret of all other ball bearing companies, who have learned to fear "The little salesman from Tech."

We still feel that he is one of us and have greatly missed his good fellowship during our Senior year. However, we hope to be present next year to see him receive his sheepskin.





ARTHUR NUTT

T B Π

Born Feb. 6, 1895, New Rochelle, N. Y.
Prep., Worcester Classical High School.

Arthur Nutt was born February 6, 1895, in New Rochelle, N. Y., close to the world's greatest metropolis. No wonder you do not take him for a country jay. It would be safe to say that he never milked a cow, although his remarkable ability in laboratory work indicates that he would no doubt acquire the above art as readily as he learned to operate an Alden dynamometer. Arthur is a New Yorker by birth, but residence in Worcester for the past sixteen years has made him virtually a Yankee and he lacks entirely the York State accent.

Arthur's skill in shop work is due in part to a natural talent for the same, and more perhaps to the fact that he received a valuable varied experience in garage repair work during three summer vacations. One regret we cannot fail to register (with apologies to his nibs), he received more pay for his summer exertions than he should hope to receive for a few score of years after graduation.

With all due respect to a certain Franklin engineer, we are inclined to believe that Prof. Gallup's request that we make it hard for him was only too well fulfilled by Herr Nutt and his brother at a lively discussion one morning in the M. E. laboratory. In fact, we are rather forced to think that the work of the Nutt brothers almost procured the Franklin man's goat.



Arthur's scholarship standing has not had a single blemish. He is a member of the student branch of the A. S. M. E., and in his Junior year he was elected member of Tau Beta Pi, being in the first eight of his class. His only failing is a fascination for the dance hall. His greatest virtue is a keen and lively interest in progress.



HAROLD NUTT

T B Π Σ Ξ Mechanic

Born Dec. 3, 1893, New Rochelle, N. Y.
Prep., English High School, Worcester, Mass.

President Student Branch A. S. M. E.; Member AFTERMATH Board.

Harold Nutt was born in New Rochelle, New York, on December 3, 1893, of Yankee parentage. He got his first taste of school in New Rochelle in the form of kindergarten before moving to Worcester at the age of five, when he entered the Public Schools. He passed successfully thru the nine uneventful grammar grades in the Worcester Public Schools, entering the Worcester English High School with the Class of 1912.

His scholarship was just as excellent here as it was in the grades. He was one of the few Honor Pupils out of the large class numbering eighty-four. As a result it was his fortune, or misfortune as he considered it at the time, to speak before the class at graduation. Little he knew what our Professor Coombs had in store for him.

During the last half of his Junior year here at Tech he was elected President of the Student Branch of the American Society of Mechanical Engineers. During the same semester he was made a member of Tau Beta Pi, which means good-fellowship as well as scholarship.



No one realizes the value of fresh air and exercise more than H. Nutt. He helped his Senior Class in High School win the annual cross-country runs by getting fifth place in the fastest runs ever made over those particular time-honored courses. He has lived with, and also by means of, automobiles for the last six or eight years, and appears to have the automobile mania for life.

When there is any of the good old ocean blue near by, say "Safety First," and produce a bathing suit for the said Nutt. Another weakness troubles him occasionally. It is the process of dulling his tin skates on the varnished, tar-papered, and corrugated surface of the mud puddle in Elm Park.



PAYSON AUSTIN PERRIN

Civil

Born Boston, Feb. 20, 1894.

Prep., Worcester South High School.

It may be said that Payson Austin Perrin is one of the quietest members of the Class of 1916. He is a great lover of outdoor sports and gymnasium work. Payson was a member of his High School track team and has represented Worcester Tech on the athletic field in cross-country runs and football contests. Walking, swimming and canoeing are some of his specialties. Ask him to relate to you his experiences on a canoe trip down the Blackstone river to Providence. According to Payson, the odor from this river is not so bad after all. I believe it rained every night during that trip and yet Payson states that the rain didn't trouble him any. He has not only had many adventures as a sailor, but he has climbed to the peaks of many a tall and lofty mountain, such as Mt. Wachusett, Mt. Greylock, and many others.

As far as the writer knows, Payson has never been snared by the beauty of the fair sex. He has been known to visit the Casino occasionally. It can be said that Payson has not created a single enemy during the four years that he has been enrolled as a student at our Alma Mater.

Perrin's latest job has been climbing all the hills around Worcester in the pursuit of his Thesis. Sighting "invisible" points is only one of the stunts our hero has indulged in of late when, by chance, he could get his running-mate Horne to show up at the proper time. Many have been the quiet disputes between these two men over the cost per mile of triangulation, can you believe it?





HARRY GEORGE BEDIG (PETERSON)

"Pete"

Electric

Born Karput, Turkey in Asia, March 25, 1893.

Prep., South High School, Worcester.

On Thanksgiving morning, the year of our Lord 1900, one of the trans-Atlantic liners with valuable freight on board was carefully feeling its way past the Statue of Liberty into the Hudson River channel. It was well that the captain did use great care, since part of the aforesaid valuable freight consisted of the person of Harry G. Peterson, one of our most widely known classmates. It did not take "Pete" long to become acclimated and he soon was an adept in the student vernacular of South High School. After a post-graduate course he turned northward and entered with the good old Class of '16.

From the start Harry has always been cheerful, no matter what difficulties were before him, and he has always added to the cheerfulness of his co-workers. He has worked much harder than the casual observer would suspect and for that reason never failed us in a pinch. He early exhibited a great aversion to the M. E. Dept., preferring courses in aesthetics as a more profitable substitute. This probably accounts for the many trips he has made to Greendale and Quinsig Village on Sunday evenings, although some of his experiences do not tally very well with the above-mentioned reason for taking such trips.



Probably the greatest contribution "Pete" has made to Science is one which startled "Pa" French and astounded the medical profession. This contribution was in the form of a cure for the "bends" or caisson disease. It consisted simply in giving the poor sufferer an injection of compressed air. He has carefully guarded the method of procedure for this marvelous treatment until some of the minor(?) details can be perfected.

Leading such a versatile life Harry has not found it possible to devote much time to the other activities on the Hill, but he has in his make-up some of those characteristics which make for a successful man.



MERLE BARNES PHIPPS

"Deak"

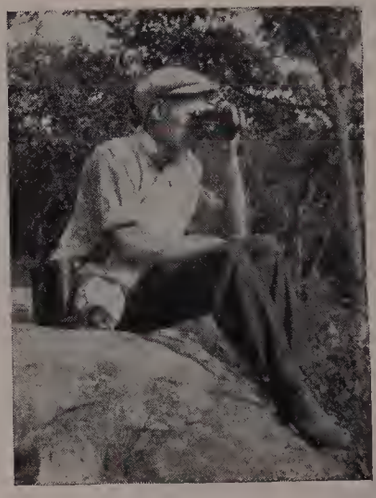
Civil

Born July 31, 1891, Quinebaug, Conn.
Prep., Orange High School, 1911.

"Deak" is one of the nom de plumes under which this aspirant for fame in engineering sails. The designation does not mean that Merle has any of those qualities usually observed in deacons, far be it from such. No one would ever accuse him of being very pious, although he attends very piously to business, of which with him there is generally a great sufficiency. Phipps is distinctive in this regard, for he always has his lessons prepared, and he is a Civil, too. If at 8.45 A. M. you want to glance over a problem which is due at 9.00 A. M., go to Phipps, he always has it done; of course not always right, in fact seldom so, but then, it is done.

Merle Barnes Phipps originally came from the "teeming" metropolis of Orange, Mass., but upon deciding to risk his life, career and happiness at W. P. I. he departed from that busy mart of trade and favored Worcester with his sunny countenance and his shotgun. Oh yes, Phipps is a huntsman of no mean fame. He is a veritable terror to all denizens of the wood. English sparrows flutter in terror at his approach, field mice scurry into their holes at the sound of footsteps, and, as for shiners and tadpoles in the ponds, they fall easy prey to his bent pin.

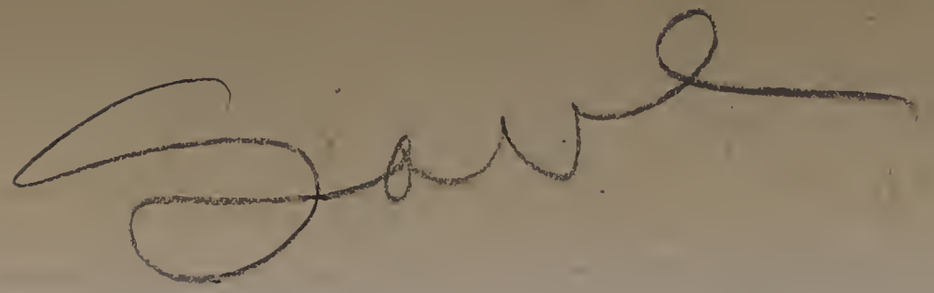
A dissertation of this character would not be complete without some comment on Merle's sentimental connections, but, alas, the reader must suffer disappointment for our friend seems to take the attitude of "Let 'em alone, there ain't no good in them anyway." But we must be frank about Phipps, he is one of the most promising men in the class. He is faithful and consistent and has the quality of staying with a task until it is accomplished.



Miss Haynes - Library

These two Aftermaths are of no value to me.
Do you know of anyone who would want them?
If not, please dispose of them.

F. R. B.





EARLE CLARK PIERCE

"Slippe"

Λ X A Chemist

Born, Thompson, Conn., March 10, 1894.
Prep., Tourtelotte Memorial High School.

If one when walking through the Salisbury Laboratories should hear a cry of "Whee!" and see a round faced guy in a dirty white coat, he is face to face with "Slippe."

"Slippe's" early training was that of a tiller of the soil, but the close communion with Nature did not appeal to him as strongly as did the call of the city, with the result that we found him with us in September, 1912. The effect of his early environment is shown by his habit of going to bed at eight and arising at six; by his taste for cider and by his choice of raw material from the farm for research work in the Organic Lab.

It was during his Sophomore year that he first purchased a slide rule and it was by faithful and constant application of his "stick" to every problem, great and small, that he earned his nickname.

On the Hill, "Slippe" has been characterized by his persistent efforts with every problem in which he was interested; by a remarkably even disposition and by an irrepressible desire to monkey with any complicated apparatus.

This is "Slippe" as we know him. He has always been faithful to his work, and although at times he has appeared to lag a little in his studies when outside work had its attractions, the loyal band of Chemists will stick with him thru thick and thin.





WARREN HORTON PIKE

"Count" *"Scrawny"*

Δ T Civil

Born Jan. 3, 1892, Worcester, Mass.
Prep., Worcester Classical High, '11.

Assistant Manager Track (2); Manager Track (3); Track Team (1); Sophomore Athletic Director (2).

It is after eleven in Room 17, Boynton Hall; the bell has just rung, and "Pa," after making a few notes in his little book, smiles sardonically and is about to pick out the first victim. The door opens, and in wobbles a person, insignificant in stature, but with the distinguished air of a foreign personage of high rank. Under one arm is an imposing array of books, over the other jauntily hangs a slide rule, while his inside coat pocket is bulging with unanswerable correspondence. Thus appears the "Count."

As is usually the case with famous men, there is a mystery regarding the "Count's" birthplace. Two Massachusetts cities, Oxford and Worcester, have almost come to blows over the question. Oxford asserts that he was born in Worcester, and Worcester maintains that he was born in Oxford.

Although "Scrawny" is noted for his ability to assimilate the maximum amount of knowledge in the minimum of time, his real forte is girls. For a long time Terpsichore has worshipped at his feet and under her guiding hand he has learned much about the fair sex. The "Count" has a way with women, which has helped him in business. His assuring "Just look at this brush, Madam, every bristle selected by hand!" has wrung many a dollar from the "wheat" housewives.

"Scrawny" has a keen mind, a strong personality and the ability to make friends and keep them, so there is every reason for predicting his future success.





AMOS ALLEN PUTNAM

"Putt" *"Amos"*

Mechanic

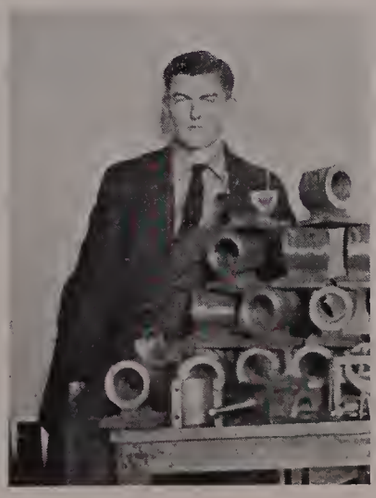
Born Sherborn, Mass., Aug. 23, 1894.
Prep., Natick High School.

"Putt" has not made himself conspicuous at Tech through his appearance on the baseball field or gridiron. His athletics were mostly confined to farm and bucksaw. It is his sterling character and cheerful smile that has made him a highly esteemed classmate. His manner is most quite and modest, given little to sport or show. Amos is one of the few men at Tech who does not manifest his weakness for the fair sex, and we think to their loss.

Steam seems to be his favorite subject. He can do wonders in this, evidenced by the fact that he got an "A" in the course. As a fireman Amos stands in a class by himself. No coal is so soft that he cannot produce an absolutely smokeless fire therefrom.

Amos ought to make a good instructor, for when he was not working out thermo problems he was tutoring some underclassman in Steam or Kinematics.

If there is one thing that some of us can do as well as Amos it probably is manipulating the typewriter. It was evident, when typewriting Lab. reports, that his fingering of the keys was slightly imperfect, and not over speedy. Fortunately (and many of us can vouch for this) a person's skill at typewriting is no measure of his true worth.



Although not so widely known as some other members of his class, those who do know him feel that his friendship is the kind that counts in the coming battles with Life, and accordingly congratulate themselves.



ALLEN HAVEN RICHARDSON

"Rich" "Richie"

Electric

Born Nov. 11, 1893, Franklin, Mass.
Prep., Franklin High School.

Y. M. C. A. Cabinet (4).

Who has not seen, in the forefront of the Electric Division, this contented looking individual from Franklin come ambling along faithfully seeking a higher education and endeavoring to emulate the man for whom his home town was named? "Rich" has been right on the job for the past four years. One or two summers he has stopped off electrifying for a while and gone into scientific farming with such a zeal that he has brought back a dark coat of tan in the fall, but his most daring expedition was in the summer preceding his Senior year.

Then it was that he, aided by our absent friend Stearns, took away our test car and coaxed it off into the wilds of the State of Maine, not for farming this time, but to show the street car companies wherein their roads were not giving the Maine farmers the best possible service. Having successfully accomplished this, he sent the car back by freight and returned via a faster route himself, and soon we found that we were to have an evening under his direction learning the whys and hows of street railroad testing.

"Rich's" good nature has been a predominating characteristic thruout the four years of trial, and it goes a long way to show that he can keep on smiling for forty ordinary years under different conditions. His work and disposition have won him the respect and liking of his classmates, and those in his own course will often think back to the sight of this loose-jointed, lanky individual from Franklin, swinging down the long corridors of the E. E. Building.





RAYMOND WINFIELD TASH RICKER

"Ric"

Δ X A Skull Chemist

Born New Durham, N. H., Sept. 21, 1895.
Prep., Rochester High School.

Track (2, 3, 4); Captain (4); Relay (3, 4); Captain (4); Inter-Frat Council (4); Junior Marshal (3); Junior Prom Committee (3); Commencement Week Committee (4).

Four years ago "Ric" came down from "God's Country" and began to demonstrate that, in spite of the fact that he came from a small town, he could show the people of Worcester a few things. He started out to learn the ropes in Worcester (incidentally going to Tech) under the guidance of Haigis and Curran, but he soon surpassed his instructors in knowledge, and since then he has not needed a guide.

The faculty had to be shown pretty thoroughly the first year, but since then they have not caused "Ric" much trouble, and his ability to cut and get away with it has been the envy of his division. Although not considered a shark he has always been up with the leaders, and in the lab as well as in recitation his middle name has been "Efficiency."

It was not until the end of the Sophomore year that he was able to prove to the coach that he could run, but since then his ability on the track has never been questioned. The last doubts in the minds of a few were dispelled after a special mile race last fall. It is safe to say that Ricker will stand as one of the best all around runners ever developed at Tech.



When it comes to girls "Ric" is pretty discriminating, but in the few cases where he ever did err in judgment, a dark night, a quick turn in the road, and his fleet legs saved him from spending an unprofitable evening. Until the Senior year he seemed to be immune, but lately he appears to be specializing.



ELLERY EATON ROYAL

"Bud"

Φ Σ K Mechanic

Born July 14, 1894, Harvard, Mass.
Prep., The Bromfield School.

Football (2, 3, 4); Varsity (4); Track (1, 2); Glee Club (2); Class Vice-President (4, 2); Commencement Week Committee.

Upon the records of the Town of Harvard appears the following: "September 16, 1912, Ellery Royal left for Worcester Tech." This ancient record marks the initial point of our hero's career; the point where he was prevailed upon to give up his long cherished dream of becoming the leader of the town band to embark on an engineering career. It was a hard fall from a dream of brass buttons and a battered cornet to the prospect of jumpers and overalls, yet the change was a good one. During the past four years "Bud" has developed greatly along scientific lines. He can tell what metals are contained in the alloy of his cornet (possibly by taste), but he cannot show the same knowledge as to the notes it contains.

Once at Tech, "Bud" naturally had to go into athletics to keep from spending too much time on his lessons. He started by running in the cross-countries the first month, and since then he has been a familiar figure upon the diamond, gridiron and track.

During his first two years at Tech, "Bud" found delight in church socials, parties, and the like; but since then the glamour of this form of amusement has waned, while the week-end trips to Harvard have increased in importance as well as in frequency. Indications indicate that a new dream has now taken the place of his ambition to be band leader.





CLIFFORD WESLEY SANDERSON

"Sandy"

Λ X A Chemist

Born Phillipston, Mass., July 3, 1894.
Prep., Central High, Springfield, Mass.

Ah, ha! Here we have the gentleman who at one time was called "Funeral Face," but he has since lived down that name by putting more time on his classical education. For three and one-half years "Sandy" viewed the view from far off "Hillcroft," but at last he came to a realization that the Worcester Consolidated was taking too much of his time and good money, so he decided to move to the big town where the sidewalks are left out all night.

Admit it, we must, that this tall, quiet lad is more or less of a "shark." For instance, it took the Faculty three years to hand him a mark lower than a "C," but once the habit was started they made good work of it. But on that make-up, Zowie!

"Sandy" is one of those men who can make any result come out the correct way without "frigging" it, and this characteristic has made him a successful laboratory man. In E. E. Lab he was able to chase the gausses around with such abnormal rapidity that his labors were finished at exactly 3.30 each afternoon, making him the envy of his associates.

Somehow or other a man's obituary is never complete without a mention of the "woman." In "Sandy's" case he has got something on all of us in that we were never able to find out the "Why" and "Who" of that 'phone call each night at exactly 6.07.

Those who know Sanderson best will always stand up for him as being a true and conscientious friend, and, above all, a "regular guy."





HAROLD GARDINER SAUNDERS

Θ X Mechanic

Born July 4, 1894, Providence, R. I.
Prep., Providence Technical High School.

Orchestra (1, 2, 3); Leader (1, 2, 4); Class Secretary (2).

Harold, alias "Saundy," first climbed the steps to Boynton Hall with a song on his lips and music in his soul which was bound to find expression in some form or other. It early cropped out and attracted the attention of the public through the strings of his violin. For four years he has been one of the mainstays of the Tech Orchestra. He served faithfully for two years as first violinist, after which time he began to show qualifications for leadership and acted as assistant leader. During the fourth year he was elected leader and led the orchestra through one of its most successful seasons.

He has also played most successfully for many parties and dances independently of the orchestra, thus finding his violin a valuable source of income. He has also done much outside of his music to help pay his way through the Institute.

In spite of the demands of Tech, music and work on his time, he has found time to be a good fellow among the boys and a lady-killer among the girls. A rosy complexion and fine features, characteristics which attract more than a casual glance from passing maidens, have made it impossible for "Saundy" to live his life entirely independent of the fairer sex, had he the desire to do so.

Among his fellows (perhaps the most critical test of real good fellowship) he has ranked with the most popular. His quiet and unassuming disposition have, perhaps, prevented him from being pushed forward into public office, but he has won the deep and true friendship of all with whom he has come into intimate contact.





WALTON BREMNER SCOTT

"Scotty" *"W. B."*

Δ T Σ Ξ T B Π Chemist

Born Danielson, Conn., Jan. 6, 1896.
Prep., Providence Technical High School.

AFTERMATH Board; Mandolin Club (2, 3, 4).

Some fellows slide into Tech with a brass band heralding their coming. Others come without any fuss whatsoever and then make a noise after they get in and firmly established. To the latter class belongs Scott, with "Walton Bremner" as a handle.

We had hardly placed his name on the registration slip before he started to hunt for a mandolin club, wherewith to show his skill. Every year since then he has been the club's chief mainstay in the guitar division.

Born in a small town in Connecticut, one would naturally suppose that the bright lights of Worcester would have dazzled him, but not so with "W. B." While the rest of us were enjoying the productions at one of the numerous houses of gaiety, "Scotty" was busy showing the Faculty what he knew. As a result his scholarship standard made him eligible to T. B. P., to which he was elected in his Junior year.

"Scotty" is of the terrific tribe of Chemists and by them was elected their AFTERMATH representative. Ordinarily this might not be such a great thing, but the Chemists are particular in their choices, and "W. B.'s" work on the Board has justified their selection.

He has a retiring disposition and one that is so evenly balanced that it is considered remarkable if his voice rises above the ordinary tone of conversation. Quietness is often a virtue, however, and it truly seems to be so with "Scotty."





RUSSELL MITCHELL SEARLE

Born Providence, R. I., August 2, 1893.
Prep., Providence Technical High School.

If you should happen to be walking through the Mechanical Building and should meet a straight individual who looked over his glasses with a ministerial expression similar to our friend "Ding," right away you could make up your mind that here was Russell Searle. Evidently his spectacles are worn for the sole purpose of improving his personal appearance, since he has never been known to make use of them. Whether or not he achieves this purpose is not for us to say—but we have our opinion just the same.

Ordinarily "Rus" is a quiet, amiable sort of person, one who would not stir up a fight under any circumstances, but let a combination of troubles come his way and he immediately recalls every cuss-word coined and used since 1000 B. C. They issue from his mouth in perfect form, complying in every detail with all the rules of "Unity," "Coherence" and "Mass"—especially the latter.

"Russ" has a great dislike for the bright lights and theatres of Worcester, not because he is afraid that his morals will be corrupted or that the folks at home will hear about it, but for this reason: somewhere in this city he has a friend who is such a great attraction that the bright lights are dim beside her, and the theatres are dull in comparison with the entertainment she offers. Because of her "Rus" has not had an occasion to go down street since some time in November, but is thinking of taking a journey down there before he leaves for home this summer.

With all these manly failings he has been an ever-present source of amusement to the Mechanics in their course, and his sharp, quick humor will ever be missed.





ALVIN LEROY SHERWOOD

"Vin"

Σ A E Chemist

Born Westfield, Mass., Oct. 9, 1893.
Prep., Bristol (Conn.) High School.

Football (2, 4).

Lest the innocent reader should be misled, the accompanying photograph is not one of a Gibson model come to life, but that of an ordinary individual who eats and sleeps, and at times even displays human intelligence. To state that "Vin," as he is known in tango circles, is the pride of his home town, would be putting the case mildly. He is so idolized that it is the wish of every fond mother that her son grow to be like him. His popularity, since coming to Tech, has in no way decreased. Certain instructors have seemingly spared no efforts to have him around more time than is specified for a given course; in fact, he has been so popular that more than once arrangements have been made whereby it was possible for Alvin to spend a certain part of his vacations on the Hill. However, in all of these "pink teas" given in his honor, he has shown what Jeffries failed to do, and no doubt this same bull-dog spirit shown here will do much in his gaining success in his P. G. course at Wellesley. Above all things, he is blessed with a wonderful voice, in fact, one might be tempted to call him a singer *par excellence*. Strangely, his tones are not so pleasing near by. Often his ballads have been so touchingly rendered that a laboratory class has been entirely broken up. There is not room to enumerate all of his virtues, but it would be unfair not to mention his abundant good nature, except on mornings of "eight-o'clocks." He has made many friends on account of this quality and undoubtedly will continue to spread sunshine.





WILLIAM EARLE SHUMWAY

"Shum"

A T Ω Skull Civil

Born Sept. 27, 1892, Revere, Mass.
Prep., Worcester English High, Worcester Academy.

Vice-President Athletic Association (3); Tech Council Class President (3, 2); Secretary Athletic Association (2); (3, 1 2); Varsity Football (2, 3).

In our Freshman year we needed a rope-pull captain that could both pull and captain. One look at Shumway by the class and his election was unanimous. His team was successful. The next year there was no need for an election, since it was commonly agreed that Shumway should again lead our team. Contrary to all precedents, wagers, beliefs and what-nots, the team under his direction pulled as a unit—and won.

In football his physique was such that he was a regular from the start. At the middle of the Junior year he was elected captain of the team for the coming season, but during the summer vacation a little germ got "Shum" when he wasn't looking and set up housekeeping. This prevented Earle from returning last September and another captain had to be elected to fill his shoes.

Probably no man is better known to the majority than Shumway. On the athletic field, in the class-room, in any one of the numerous societies to which he belongs, or even knocking about town in his "Scripps-Booth," his ever-cheerful and light-hearted way in which he looks upon life are attributes which tend to win him friends as well as to hold them. He has a brilliant future before him and his disposition is of the kind that would win for him wherever he might be placed.



1916

The W. P. I. Alumni Fund

"A Living Endowment"



RAYMOND LYLE SPAULDING

"Ray"

Φ Γ Δ Civil

Born April 30, 1894, Worcester, Mass.
Prep., Worcester South High School.

Tech Show (2, 3, 4).

Life at Tech has seemed to agree with "Ray," and so much so, that it has necessitated his taking up gymnasium work to reduce some of the superfluity which he carries around with him.

One of his great hobbies is to read every book that is published, place the name and number in his catalogue, and give his opinion of the book. After he has read two or three books in an evening, if there is still enough time to devote to studies, he does so, otherwise he relies on his natural ability.

Another of his favorite pastimes is to play pool with anyone that he can get to cut design with him. His desk is usually empty between two and three o'clock every design period and he is either playing pool or cards.

He has successfully taken the part of a spinster lady in the Tech Show for three consecutive years, and part of his work at present is to reduce so that his present difficulty will be removed when he has to don his feminine finery.

Of late his favorite diversion seems to be his "little Overland," which follows him to all the places he may take himself, and the best part of it all is that he always makes use of the rear seat.





CHARLES LE ROY STORMS

Φ Γ Δ Τ Β Π Civil

Born Sept. 10, 1894, Norwich, Conn.
Prep., Norwich Free Academy.

Glee Club (1, 2); Quartette (2); Treasurer Musical Association (2, 3); Y. M. C. A. Cabinet (2, 3); Vice-President (2-2); President Class (3-1); Tech Council (3-1, 4-1-2).

Charles Le Roy, so he is proud to say, came from Norwich-on-the-Thames, The Rose of New England. However, that is not much against a man after all. "Roy" has a great deal more than this to answer for to the members of the class. It was in this manner that it happened: "Roy" by some strange power was initiated into that band of polite robbers known as the W. P. I. Book and Supply Department, during his Sophomore year. After serving an apprenticeship as assistant puncher of the cash register, he became chief executive in his Senior year. Our fondest memories of "Roy" will be his satisfied smile as he stands behind the sign "Cash To-day, Credit To-morrow."

"Roy" is somewhat of a musician, if you could but believe it. Sure thing! he is a most accomplished player of the sweet potato whistle. Besides this "Roy" can sing as well as the next one and was a valuable member of the Glee Club and Quartette for two years.

There was a big scare for "Roy" during his four years' stay at the Institute. It was noticed that the hair on his head was getting further and further away from his forehead and a worried look was taking its place. One could smell the odor of Tarvia or some other road oil which seemed to come from his thatched dome. Whatever it was, it brought results and "Roy" retained his hair.





HENRY SINCLAIR STURTEVANT

"Sturdy" *"Henry"*

T B Π Mechanic

Born April 18, 1894, Concord, N. H.
Prep., Concord High School.

"Sturdy" is the title by which he is best known, due no doubt somewhat to his name, but aided to perhaps a greater degree by the solidness of frame with which nature has endowed him. He is a Mechanic. For what else could he be prepared after having captained a motor boat every summer since he was able to walk? 'Tis indeed a hard subject to describe Henry to an outsider, for one must know him as we do to appreciate his sterling worth. His life at Tech has been spent in obtaining what he came here primarily for, namely, an education. To this end you may well see how he has succeeded by the inscription beneath his name. His is the personality envied by the nervous man, always sure, steady and deliberate in his undertakings, but "there with the goods" when it comes to a "showdown." "Sturdy's" sole dissipation consists of his frequent trips to the "Court" or "Pleasant" directly after supper, returning in time to peruse the latest news concerning the automobile world. Do not infer, dear reader, from the above that our friend's life is wholly quiet, for he has been known to get gay of an evening with the result of a perfectly first class rough-house, from the ruins of which "Sturdy" emerges with a radiant smile portraying supreme pleasure. To return to the serious side, nothing arouses Henry more than to have dealings with underhandedness or the 'get-something-for-nothing' principle. This last typifies the man he is, and as such he will always be known to his classmates.

His recent invention in connection with his thesis has brought to him much well-deserved commendation.





SIDNEY THAXTER SWALLOW

Σ A E T B Π

Born Sept. 14, 1892, Allston, Mass.

Glee Club (1, 2); Y. M. C. A. Cabinet (4); Delegate to Kansas City Student Volunteer Convention (1914).

To the members of the Class of 1919, "Snuper" may be the Mr. Sparrow who was the presiding officer at the Freshman Reception, given by the Y. M. C. A., but to the members of the Class of 1916 he is a classmate who is known by his fame as the manipulator of the musical black-jack.

Deriving music out of said black-jack is not the only form in which "Sid's" musical talent shows itself, for sometimes instead of the wind instrument, he chooses "ye olde time fiddle" and proceeds to draw from the same such music (?) as befits his mood.

But that music is not "Sid's" only asset is shown by the faithful work which he has performed for the Y. M. C. A. For this association he has worked diligently both as Cabinet member and as student.

Though "Sid" was never known to shirk outside responsibility, still he always found time to keep his studies well above the passing mark, and has been rewarded for his good work by being elected to membership in Tau Beta Pi.

"Snider" has always claimed that it is necessary to take plenty of exercise in order to keep the brain and body active, and hence he has always been an ardent follower of outdoor sports and has taken plenty of exercise even though in so doing a study hour or two had to be lost.



"Snider" has well earned the esteem of all his classmates, and we earnestly prophesy that the example of activity and good scholarship, which "Sid" has shown, will have a most desirable effect on the underclassmen.



RICHARD McMILLAN THACKERAY

"Dick" "Thack" "Rummy" "Grouch"

Φ Σ K T B Π Electric

Born Fall River, Mass., Sept. 3, 1894.
Prep., B. M. C. Durfee High School.

President A. I. E. E., W. P. I. Branch (4); Class Secretary (4-1); Class Marshal (3); Mandolin Club (2, 3); Manager (3); Tech Show (2).

Is it exam time? Look at "Thack" and you can tell. Anyone can tell. If you see a tall, good-looking man, utterly cast down, with gloom literally dripping off him and out of him at every pore, you may safely assume that "Thack" is returning from an exam, and incidentally, regardless of his dismal forecasts concerning the same, you may safely bet your last dollar that old "Thack" has come through a trifle higher than anyone else. But this gloom talk is hardly fair, for "Dick" is one good-natured person by instinct, training and desire, but the times of trial are all too frequent in the Electrical course.

While at Tech, he has acquired a taste for three things, a good big letter every day, a big pipe full of tobacco, and thirdly, a good hand of pinochle. If the letter fails to appear, old "Thack" is soon hidden in a cloud of tobacco smoke, and a gloom cloud equally thick enwraps him, a cloud that nothing but another day without a letter can deepen.

In spite of the aforementioned pessimism in regard to exams, the only time "Dick" even approached the dead line was when a certain gentleman in the Mechanical Department took a fall out of him for not knowing certain things about the "impurities" of Bessemer Pig, but "Thack" came back strong in September.



"Dick" has one characteristic that is valuable and more or less unusual, and that is a taste for hard, systematic work. He has been justly popular with his classmates, and has commanded their esteem and respect. He is a fine musician on nearly any instrument, and is always there for a good time.

He stands out as a man pre-eminently fitted for his chosen profession.



HAROLD MITCHELL TOOMBS

"Toombsie" *"Scheneve"*

Φ Γ Δ Civil

Born Aug. 28, 1894, Brooklyn, N. Y.
Prep., Colgate Academy.

Glee Club (1); Orchestra (1, 2, 3, 4); Manager Orchestra (2, 3); Manager Musical Association (4); *Tech News* Association (1, 2); Editor Y. M. C. A. Handbook (4); Y. M. C. A. Cabinet (4); Treasurer Class (1-2, 3, 4); Chairman Junior Prom Committee (3); Toastmaster Half Way Through Banquet (3).

Harold hails from Schenevus, N. Y.—no, we never heard of it before, either—but he generally mentions his residence as merely New York, and his intimate knowledge of the "Village" has often enabled him to put this over on an unsuspecting acquaintance. The "farm" still holds its attractions for him in spite of his reluctance to talk about it, and there he spends his summers, "kidding the chickens along" and otherwise improving his time.

"Scheneve" is a conscientious worker and his efforts are usually attended with success. His hard work (in getting others to work for him) was a valuable asset in getting out this year's Tech Bible. He has developed the only original method of solution of stresses, which consists of looking over the top of his specs and remarking, "You'd naturally think 'twas compression, but 'tain't, it's contention." This ingenious method coupled with the fact that he is never (?) late to class, has enabled him to get by "Prof." with an ease (not E's) that passeth understanding.

Seriously, "Toombsie" is one of the most level-headed and dependable men in the class. Our liking for him and our faith in him have been shown by his unanimous election, after a year and a half of service as Class Treasurer, to the position of permanent Treasurer of the Class of 1916. We know that the qualities he has shown at Tech will surely be appreciated in whatever line of work he takes up, and we one and all join in wishing him a well-deserved success.





WALTER ASHTON TRUE

"Bub"

Mechanic

Born, Sailsbury, Mass., July 10, 1894.
Prep., Newburyport High.

Walter A. True is a man with a reputation outside of Tech, for he is an official (not the mayor) of that thriving community known as Salisbury. But "Walt" did not intend to leave all his reputation there, and hence brought with him that faithful friend in the form of a jimmy pipe. Now since "Walt" is a sincere Mechanic, it is his duty thoroughly to test any piece of apparatus which may fall under his jurisdiction. Accordingly, and with remarkable contentment, this duty has many times been performed. All kinds of fuel have been used in connection with natural, induced, and forced draft, and the rate of combustion obtained rivals the best in the world. Incidentally, the pipe has acquired such strength, and has become so well case-hardened that "Walt's" happiness seems assured for many years.

Now "Bub" True is also sometimes known as "Kitty." It happened in a Physics recitation in which one Ancel St. John was attempting to differentiate between two objects by reason of their peculiarities. Mr. St. John chose the cat as an example, expecting to hear the claw construction suggested. True, however, was there, and explained that the peculiarity of cats lay in the fact that they had kittens.



As a Mechanic, True is not of the kid-glove type inasmuch as he has no fear of work or dirt, as long as it is legitimately connected with Mechanical Engineering. But, best of all, his sincerity and good heartedness have made him a mutual friend on the Hill.



HORACE TRULL

"Horace" "Trully"

Mechanic

Born Nov. 6, 1891, Woburn, Mass.
Prep., Woburn High School.

Glee Club (1, 2, 3, 4); Quartet (2, 3, 4); Tenor Soloist (3, 4); Tech Show (2, 3, 4).

(Horace in B. A.'s Steam Course)—"Oh, beans! I forgot to multiply by 144." Yet "Steam" never worried him. But, when it came to "Davy's" courses Horace's only chance was to take Thesis under him and unless he falls asleep and asks a question that has just been answered we believe he will "get by" Gas Engineering.

Horace, during the past year, has had an advantage over many of us; where we have had to amuse ourselves at the "movies" he has had a four-wheeled mechanism which he calls an automobile. And the most interesting part of it all is, it is not, or at least is not used, as a one-passenger car.

Horace is one, like many others, we presume, whose home is very near another institution similar to ours, but, the praises of our Alma Mater having been sung loud enough to reach his ears, he chose Worcester for his home, and Worcester Polytechnic Institute as the school where he would seek his education. But from the moment he entered to his Commencement Day, he has done more than to simply look for an education.

No Tech concert is complete without his generous contribution. Few of us there are, who after listening to him, somewhat enviously, we admit, have not wondered why with such "easy money" within his reach he chose to "grind" away for four years at Tech.

This fact, in conjunction with his willingness to aid the success of any social event, simply goes to show that his aim in life is more to provide for the comfort and pleasure of others than it is for fame for himself.





MAX WINFIELD TUCKER

"Tuck"

Cosmopolitan Club Civil

Born Washington, D. C., Oct. 16, 1893.
Prep., McKinley Training School (Washington, D. C.) 1912.

If there is any truth in the old adage, "Laugh and grow fat," and you wish to keep down to reasonable weight, you'll have to keep away from Max. And it is the unintentional way that he lets the little puns and comments get away from him that makes his remarks so entertaining. When "Bob" Chandler's party spent a whole afternoon figuring and laying out a curve over where the Gym is now, and ended by having it run smack through the trunk of the big tree out there, it was Max who cleared the air by guessing they would have to call it a Trunk Line. And in connection with B. L., he confessed in one instance that he didn't know whether a certain "negligent" citizen would be sued for damages, or—for sewages.

And so it goes. He can't help it.

There is one failing that has got "Tuck" into difficulty at least twice,—his leaning for anything in the line of "eats." The first case was in his Freshman year, when a classmate passed him some candy from home (it was April first), and he found that chocolate-covered moth-balls not only were not palatable, but had a more lasting effect as well. And later, at camp, acting, as he later confessed, on information gained in his boyhood days, he foiled the cook's attempts at "preserving" a nice big fresh cake by keeping it in the oven. But, according to the authorities, his part in the disappearance of the cake would never have been known except for his guilty conscience, which led him to believe that the third degree was about to be applied, when in fact no one had the slightest idea as to the culprit.



We know that Tech hasn't been the bed of roses to Max that it has been to so many of us (!) and the way he has "stuck" and kept such an unchangeable good nature, has been a lesson to us.



DONALD HUGH CAMPBELL TULLOCH

"Don" *"Kewpie"*

Σ A E Chemist

Born Worcester, Mass., June 30, 1893.
Prep., English High School, Worcester, Mass.

"Don" is a native of Worcester, but although he has lived in the vicinity of Tech all his life, he was not scared by its high "death rate," and in 1912 he became a charter member of the Class of 1916. By the end of his first year he had decided to become a Chemist, and since then he has divided his time between chemistry, football and journalism.

It is rumored that once during Freshman year, "Don" was present when roll was called at an eight-o'clock, but he soon got over the habit of wasting that amount of time, and during the last three years he has become much more efficient, getting to class just as the recitation begins.

"Don's" summers are spent at the Sterling Camp Grounds, where he spends his time getting "scoops" for the "Only." He has shown remarkable ability as a reporter, being able to "cover" even the most important meetings and make up lost sleep of the night before at the same time.

In one thing, especially, he has aroused the envy of his classmates, and that is his ability to raise a "regular" moustache on a few days' notice. Many have been the attempts to compete with him in this respect, but as yet his prestige is unquestionable.



In four years' association with "Don," his classmates have always found him to have the same agreeable disposition. No matter what may happen, he always takes it cheerfully, and is always willing to share his cheerful spirit with his friends.



EDWARD ALLEN VARNEY

A T Ω Civil

Born May 12, 1895, Orange, Mass.
Prep., Orange High School.

Vice-President (3, 1).

"Care to our coffin adds a nail, no doubt,
And every grin so merry draws one out."

"Ed," as he is called by all Tech men, is a product of Orange, Mass., "Sun-kist" if you please. Well known and popular, he has proved himself a loyal Tech rooter. Right off the reel, at the beginning of his sojourn at our place of knowledge, he showed his good judgment (according to the Civils) by taking their course. His accomplishments are many and are varied throughout the widest degree, from that of being Class Secretary to the winning of the Y. M. C. A. pool tournament in his Junior year.

Although the books of "Ed" have always been his first thought, he has been found always prepared for a high-society dance at a minute's notice.

Our friend "Reddy" has only "Ed" to thank for the success of most of the former's antiquated jokes in Water Supply or Railway Economics. Shortly after the uttering of the last word in the story "Ed" would break out in that loud cackle of his and the rest of the class would unconsciously follow him. However, these actions did not occur in any of "Pa's" classes, where "Ed" made it a point to be always alert and on the job.

During his Junior year Varney was first assistant hash-slinger in the "Rat-Hole" and as such became extraordinary efficient, while his friendship with the chief of the aforesaid place was as that of "Damon and Pythias."

Wherever we go after our final parting this June there are few of us but will miss "Ed's" cheery greeting and contagious smile, but we are certain that his winning mannerisms will follow him, whatever abode he may take up.





JAMES CARL WALKER

"Jimmy" *"J. C."*

Σ A E Chemist

Born Amesbury, Mass., July 1, 1894.
Prep., Bordentown Military Institute, Bordentown, N. J.

"Jimmy," or "Jim my dear," as he is known among the fair sex, claims Merrimac, Mass., as his home, and they say he is some boy while there.

However—the town was much too small for him, so in his youth he was sent to Bordentown Military Institute, where it was hoped to straighten his shoulders, which were becoming well rounded by the narrow confines of the little berg. There he became a regular student, and, although it is hard to believe, he claims to have stood second in his class, and also that there were more than two in the class.

When he came to Tech he started in to clean up the scholastic slate, causing the "Powers That Be" to write to his "Prep" for more of his caliber. This lasted for a year or two, until one Mae came along, and then the Gates were closed on his chances of wearing a key of the honorary societies.

If he is lucky enough to get something more than an alarm clock to start him off right in the morning, the rest of his day will take care of itself. He has often intimated that he is going to "land" a woman with a good job, so we are not worrying as to his future, unless she should prove to be a suffragette.

As noted above, "Jimmy" is one of the loyal crew which makes its headquarters in Salisbury Lab. He is considered one of the necessary requisites in the doings of the Chemists—as well as at Half-Way-Thru Banquets.





PRESCOTT HOYT WALKER

"Phos" *"P. H."*

Σ A E T B Π Chemist

Born Oct. 2, 1894, Marlboro, Mass.
Prep., Marlboro High School.

President Chem. Club (4).

Prescott first opened his eyes on this earth in the town of Marlborough, Massachusetts. It is said that his first utterances, instead of being a lusty bawl, were words to this effect: "Well, look here man, *can't* you see that if you take a p-methoxy—b-phenylenediamine and perform the reaction under carefully regulated conditions, that you will get this compound here?" All thru his four years at Tech, this, viz., explaining to the other fellow, has been one of the things for which he has been noted.

When "Phos," short for Phosphine, came to Tech, fresh from the Marlborough H. S., his one great ambition was to study. However, after about a year or two of Tech, he was caught in the relentless maelstrom, and began to broaden his education on subjects not included in the curriculum. But in spite of this he wears the Key and is "Kink" of the Chemists.

We don't know the details of his activities among the fair sex of Worcester, but on any Monday or Thursday morning, at about 2 G. M., one may see him pulling into town on the last car from Marlborough. We wonder why?



During the summer "P. H." lives the simple life, dividing his time between the place of his birth and Lake Winnisquam, N. H. At the latter place he assists his "cousin" (have you seen her?) as postoffice clerk. Who wouldn't play postoffice under these conditions?

In the four years in which we have been privileged to work with "Phos" he has won his way into the hearts of every one by his earnest and business-like manner, together with his ever constant desire to give the other fellow a lift.



WALFRED ANDREW WALLSTEN

"Wally"

Sanitary Civil

Born March 1, 1894, Worcester, Mass.
Prep., Worcester South High.

Rope Pull Committee (3).

Our friend "Wallie" is a Worcesterite, with his domicile somewhere near Webster Square. But the time spent there is small compared with that spent at Lake Quinsigamond, where a cottage, canoe, etc., provide all that is necessary for happiness. We can easily understand why "Wally" likes the Lake so well in the summer time when all the cottages are filled with dancing partners and the opportunities for "moonlights on the lake" are so numerous, but why he should choose a thesis requiring him to put in all his spare time down there in the winter time is beyond our comprehension.

Mister Wallsten is also quite a runner, although to a casual observer it would not appear. His reputation along this line was gained while a member of the Sophomore Civil Relay Team, which team almost ran a race against the Sophomore Mechanics. Although there was no race, it made no difference, as the outcome was assured anyway, with "Wally's" long pedal supports to win for the Civils.

After the outcome of that race Wallsten put all his time on his books and has kept his hands clean of athletics. As a student he has been pre-eminent, being *one* of the *three* highest men in the Sanitary Civils, a statement which means a lot to those who are in on the game. So with all these commendable qualities it can easily be seen why the subject of this article is such a welcome member in his course.





WILLIAM SPALDING WARNER

"Chubby"

A T Ω Sanitary Civil

Born Oct. 18, 1894, New Britain, Conn.
Prep., New Britain High School.

Glee Club (1, 2, 3); Assistant Manager Baseball (2); Manager Baseball (3).

"Chubby" came to Tech with the rest of us in the glorious fall of 1912 and started to make himself known on the Hill at once, for after one week of Worcester life, he knew more upperclassmen than any "Freshie" at Tech. Thru Spalding's (as he is known in New Britain) influence and timely talks on the advantages of Course B over Course A, fourteen of our classmates decided to set sail with him in the Sanitary Civil course, little forsee the hazardous future that was before them. Thru thick and thin "Chubby" has held his own as a sanitary engineer and we look to him to set a mark in this branch of engineering.

Tech will best remember "Chubby" as the man who blazed the way out of financial difficulties for our baseball team. He holds the honor of having saved baseball for the Institute, as a major sport, for by his skillful business tactics he brought this branch of athletics to a sound financial basis, setting a mark that we predict will not be eclipsed for some years to come.

Every man, of course, has his one weak point and "Chubby" is no exception to the rule. When he gets a grouch on (and they are rather frequent) he is about the hardest man to handle that one could expect to meet, but thanks to "Pa" French's heart-to-heart talks, Spalding is getting the better of this weakness. When all is said and done, "Chubby" is the kind of a man we like to have for a friend and we are behind him in anything that he goes into.





HARRIS EARLE WHITING

"Harry" *"Chief"*

Φ Σ K Electric

Born Aug. 3, 1894, North Attleboro, Mass.
Prep., North Attleboro High School, North Attleboro, Mass.

Vice-President of Electrical Engineering Society (4); AFTERMATH Board (4); Inter-Fraternity Council (4).

It was a sad, sad day for the North Attleboro Electric Light Company when "Harry" informed them that he was going to leave their employ and start in at Tech. It was in vain that the president of that company, with tears in his eyes, begged our hero to tarry yet awhile.

But "Harry," having once for all set his mind on a technical education, packed his brand new, genuine leather suitcase and sauntered forth for the "City on the Seven Hills." He entered with the Class of 1916 and we'll eat our shirt if he doesn't graduate with that class, in spite of all the hardships and handicaps.

While off the Hill, Harris enjoys his occasional (?) pipe of good old Edgeworth (price ten cents per can containing one and one-half ounces net) and is also connoisseur of *good* cigars. Ask him what *he* means by a *good* cigar.

"Harry" can tell you more about the rules of the Institute than can "Prexy" himself. For this very reason it has been decreed that Harris be attached to the Institute and assist "Doc" Pierce or mayhap "Hungry John."

But to continue in a more serious strain. There is not a more zealous worker on Tech Hill. And "Harry" has shown us that he has in him that "sterner stuff of which man is made." This is illustrated by the way in which he "came back" in his Senior year at the 'Stute. Tech is hard enough anyway, but to do the seemingly impossible certainly takes a man of worth.





ELMER ALBERT WIEDENMANN

"Windy" "Big Swede" "Elmer"

Electric

Born Mankato, Minn., May 3, 1893.
Prep., Mankato High School.

Football (1, 2, 3, 4).

Troy! the magic word. Instantly "Windy" is all attention, for Troy is his Paradise and the goal of his dreams. As a means to this end he plans to buy out the G. E. Works at Schenectady and move them over to Troy, so that he may forever be near his first and only love.

Our boy, before he got his start in life, was but a poor lad 'way out in Mankato, Minn., and when Elmer came East the town lost a third of its population, to its terrible sorrow. But, nevertheless, he packed his famous suitcase, which has been through seven suitcase mysteries, and bade farewell to the old town. Since that time they have removed all trace of Mankato from the map and poor "Windy" has never been able to find his way back again. Hence we fear that the Middle West must look again for a White Hope.

But hats off to "Windy!" Through thick and thin and in all sorts of trouble he is a tower of strength, taking his own share of the load and a great part of the work of the others. Have you ever seen him on the football field, where he particularly shines? Of course you have, for always in the center of the skirmish can be seen the invincible "Windy," with a trail of fallen warriors marking his path. And when the battle is worst against him is when you see the fighting spirit. Without a murmur he takes his punishment, but woe unto the hapless victim who stands in his way.



It is this same spirit which will lead him through other than football battles. If things are going right he smiles and takes them so; if going wrong he still smiles on and ploughs right through them.



SELDEN THORNTON WILLIAMS

"Ponty"

Σ Ξ A T Ω Mechanic

Born Feb. 7, 1892, Canton, N. Y.
Prep., Canton High School.

B. S., St. Lawrence University, 1913.
Advertising Manager AFTERMATH, 1916.

"Ponty" hails from the cold northern part of New York State, where ten feet of snow and thirty below zero is a common occurrence. Having creditably completed his course at St. Lawrence University, he decided to take up engineering and therefore we found him amongst us at the beginning of our Sophomore year. Only a short time was necessary for the class to realize how valuable an addition it had received.

In the ways of the world he is well versed, and seldom does a talkfest occur in which his sound arguments do not put an end to the discussion. Quiet in manner and unassuming in appearance, he was chosen as an easy man to pick upon. One by one, however, his tormentors stepped beyond the line of safety and they still rue the day they did so, for his jiu jitsu holds proved to be as convincing arguments as his logic.

To his studies he has been ever faithful and we regard him as one of our most conscientious workers. As an artist of no mean distinction and as Advertising Manager, we owe much to him for his assistance in making our book the AFTERMATH of AFTERMATHS.

In pursuing his duties as a "greasy" Mechanic he has had little time to increase in stature, but in things mechanical he has grown wondrous wise. He is a little man, 'tis true, but oh, what a heart and head. From the vigorous and happy way he has tackled his work here at Tech we feel confident that he will succeed in whatever he undertakes in the future.





LAURENCE DRESSER WOOD

"Joe" "Larry"

A T Ω Mechanic

Born April 4, 1892, Lanesboro, Mass.
Prep., Pittsfield High School.

Tech Quartet (2, 3, 4); Leader (2, 3); Glee Club (1, 2, 3, 4); Lyric of School Song (3); Tech Show songs (2, 3, 4.)

Secure in the niche he has carved for himself in the Hall of Fame of the Class of Sixteen stands Laurence Dresser Wood, singer, song writer, athlete and social star. The beauty and verdure of his native Berkshire Hills were reflected in his face and bearing when we first saw him on the Hill. The verdure has long since disappeared, but the beauty has flourished in the new environment.

As an athlete, "Larry" has done his little part. In his Freshman year he entered in the cross-countries, and succeeded in taking a place. It is rumored, however, that his participation in this event was not of his own choice, and that his efforts were in excess of those occasioned by any thought of victory. He was also on the Class football team; and in 1915 was Captain of the school hockey team. His attempt to establish hockey as a legitimate part of the school's athletics was unsuccessful, but his untiring efforts in this direction brought the sport to the attention of the school, and it will doubtless be added to the list of Tech sports in due time.

In the musical branch of the school's activities, however, "Joe's" star has shone with greatest brilliancy. The school song book, "Lyric of School Songs," was in part a result of his work. For the past three years his songs have made us all laugh at the Tech Shows; and in the Quartet and Glee Club "Joe" has played a leading role.



Earnest, capable, and a good mixer, it is certain that "Joe" will meet life as it comes, and cause it to give him that which he desires.



DAVID WYMAN

"Pap" *"Dave"*

Φ Σ K Mechanic

Born March 16, 1893, Gloucester, Mass.
Prep., Mechanic Arts High School, Boston, Mass.

Tech Show (1, 2, 3).

The hero of this tale is a short, sturdy chap, who answers to the name of "Pap." Why "Pap"? No need to ask that if you have ever seen him as he returns from Gloucester each fall, his cherubic, good natured face, with that very, very innocent and engaging little smile nearly hidden under a coat of tan acquired during weeks of travel in or on the water—it's all the same to this mariner who comes thru on top looking like a bronzed Indian papoose.

"Pap" came to Tech just after he had finished up in the U. S. Cadet service of the American line. So it was that he had wonderful stories of the storms off Grand Banks, of heavenly smelling quarters, all night watches on the bridge, Liverpool slums, and gay Paree, carefully investigated during a leave ashore, and finally how he was transferred and just missed sailing home on the ill-fated "Titanic."

But don't think that you have already learned all of "Pap's" accomplishments—far from it. "Pap" is versatile if nothing else. He makes a good machinist, as "Pa" will testify. For three years he has been prominent in Tech Shows as one of the fairest of the fair ladies. And there is little between these two extremes that has stuck him.

"Pap" is by no means afraid of the ladies, either, but the Faculty succeeded in instilling in his heart the Freshman year a fear that has kept him hard at work—for "Pap" is a sticker and doesn't let a project get away from him once he has started it. Although the smile has worn thin at times under the stress of B. A. and "Piggy," hard work has not spoiled his disposition, for the one thing that predominates in "Pap's" character is his unfailing good nature and good fellowship—and the logical result of this is that there is not a man better liked and respected by his fellows in Tech.





RICHARD WILFRED YOUNG

"Dick"

Φ Σ K T B Π Σ Ξ Skull Civil

Born March 6, 1894, Norwich, Conn.
Prep., Norwich Free Academy.

Class Secretary (3-1, 3-2); President Class (4-1); Business Manager AFTERMATH; Mandolin Club (2, 3); President Tech Council (4-1); Junior Prom Committee; Junior Marshal; Permanent Class Secretary.

Early in his life "Dick" conceived the truth of the old adage, "Nothing succeeds like success," and from that time on he has been an active exponent of this doctrine, and now, as he leaves Tech to start out in life, he leaves behind him a long series of milestones which we hope will mark the way for others along the road to success.

During his first two years at Tech, "Dick" put his time to best advantage in trying to live down the impression someone back in Norwich had given him that Tech was no place for a nervous man, and so we find him leading the class with a scholarship record which, we predict, will not be eclipsed for years to come. He did find time, however, to offer his services to the Mandolin Club, and to become one of its most active members.

In his Junior year, however, "Dick" began to let his reserve energies out and his classmates recognized this in electing him as Secretary of the class both terms of the year. As a member of the Junior Prom Committee, "Dick's" ability to do big things, and his willingness to give his best for the class, were brought out and when the AFTERMATH Board met to elect officers his election as Business Manager again voiced the confidence which 1916 had in him. Dick brought his Junior year to a fitting close by his election to T B Π, another recognition of years of hard work.



A recognition of his learning was accorded by his appointment as an Instructor in the C. E. Camp at Chaffins last summer, where he made an enviable record and hosts of friends.



AURELIO EDWARD ZAMBARANO

"Zam" *"Zammie"*

T B Π Mechanic

Born Nov. 23, 1893.

Prep., Providence Technical High School.

When "Zam" first came to Tech everybody thought he was quiet,—until they came to know him. Like the rest of us, he was a bit bashful at first, and didn't know just what those Sophomores might do to him. But after he decided he'd better live a little nearer Tech, and became the "landlord" of the "Way-Side Inn," he soon recovered, and then we all knew what a corking good fellow he was.

"Zam's" chief diversion is to invent something. Few know of the six long weeks of thought and argument that he and "Nak" spent on what was to be the greatest invention of the age, only to find that some other wise old chap had got there about ten years before them. But he's been at it ever since, and we've a hunch that he'll win out and be riding around in his own automobile long before some of the rest of us.

Some years ago the "motorboat-bug" bit him and it's had a clinch-hold ever since. It bit so hard that when summer came he forgot to invent—which was going some—and dreamt only of the wonderful cruises he was going to take, which, by the way, explain that darkness of complexion with which he came back to Tech each fall. Perhaps that automobile will be a cruiser after all, and if it is, here's hoping we get a week-end invitation.



With always a helping hand, cheery, pleasant, generous, and thoughtful; no one who has ever come to know "Zam" will ever again say that the twenty-third is an unlucky day for them. How could they?



ARTHUR JOSEPH LACOUTURE

Sanitary Civil

Born March 15, 1894, Millbury, Mass.
Prep., Millbury High School.

"Lac" hails from Millbury, the town which has held a grievance against Worcester for several decades, on account of the so-called nuisances resulting from the latter's disposition of its sewage into the historic Blackstone, and in the cause of the "Vaterland" he cast his lot with the Sanitary Civils. Whether or not his influence as an engineer will ever effect this change in present conditions we cannot predict, but if "Lac" succeeds in his undertaking, it is safe to say that townspeople in Millbury of the future will owe him a debt, deserving of a life-size statue in the town hall or public square.

"Lac's" over-abundance of confidence is a characteristic which we shall never forget, for well will we remember his "What a pipe! I don't see how I could have got less than 95% on it," in answer to our inquiries of how he hit some of those awful exams wished on us by "Pa" French and his colleagues in the Civil Engineering Department. We will not say how close "Lac's" estimates came to realities, but we have got to admire a man with his "going-to-win" spirit.

As a debater, in Prof. Coombs' courses Arthur came to the fore with a most interesting, as well as instructive, essay on the way the foreign element in "my home town" managed to live, and we are willing to wager that among the myriad of classroom incidents that are stored away in Professor Coombs' memory, this one has an important place in its class.



However, in spite of his occasional peculiarities, a few of which we have taken space to mention, "Lac" has sterling qualities, both as an engineer and a man, and as we part with him as he takes his place in his chosen field of activity we wish him always the best of luck.

Our Class Baby



GEORGE ARTHUR ESTABROOK, JR.
Born February 20, 1916

In Memoriam



Philip A. Chynoweth



Harry T. Walker

1916 · AFTERMATH · 1916

A Day at Woosa Teck

A Fable

By

One-Who-Knows

Even in the middle of the night, it seemeth, Big Ben raiseth his raucous voice, "GET UP! YOU HAVE AN EIGHT O'CLOCK"





Meaning well but annihilated by the Adverse Grade planted on four sides of the Institute, Our Hero magnifieth his usual 2-minutes late to 10



Even tho the Sick-Room hath been in Session some ten minutes the Late-Comer needs must linger at his Mail-Box to find — as usual NOTHING THERE



Entering the Class-Room in the middle of the Professor's Discussion the Culprit meeteth a Scowl which bodeth much evil



During this hour Our Hero learneth that his previous Days-Work was all wrong, that he hath prepared the wrong Lesson for today and that the Course requireth a new 4 dollar Text-Book



NOON

Recourse to Lunch a la Basement affordeth violent molar Exercise and then a chance to trumpeth a partners trick





AFTERNOON

An Ideal Day outside and 4 hours shop for Our Student maketh him curse his very Existence. French filleth the air



EVENING

After a Study of Human Nature at the "Worcester" Our Hero poreth over his Lessons until Big Ben hath but few hours to sound the Get-Up Gong



EPILOGUE

Now we know why Men eat Fire, go up in Balloons, shoot over Niagara Falls — and are not afraid.

FREEMAN

Graduate Students

DEPARTMENT OF ELECTRICAL ENGINEERING

Clarence Francis Alexander, Worcester
B. S., W. P. I., 1915.

Merton Luther Hazelton, Nashua, N. H.
B. S., W. P. I., 1915.

Douglas Fuller Miner, Worcester
A. B., Clark College, 1912.
B. S., W. P. I., 1915.

Kai Yan Mok, Hong Kong, China
Ph. B., Sheffield Scientific School, 1915.

Edward Russell Nary, Adams
B. S., W. P. I., 1915.

Albert Benjamin Randolph Prouty, North Brookfield
B. S., W. P. I., 1914.

Donald May Russell, Worcester
B. S., W. P. I., 1913.

William Ward Spratt, Grafton
B. S., W. P. I., 1914.

Robert Lucien Tomblen, Montague
B. S., Bates, 1914.

Clyde Colburn Whipple, Purchase, N. Y.
B. S., W. P. I., 1915.

DEPARTMENT OF MECHANICAL ENGINEERING

Carroll Fuller Merriam, Framingham
S. B., Harvard, 1914.

Selden Thorton Williams, Canton, N. J.
B. S., St. Lawrence University, 1913.

DEPARTMENT OF CHEMICAL ENGINEERING

George Albert Hill, Worcester
B. S., W. P. I., 1913.
A. M., Harvard, 1914.

Charles Buell Hurd, New Britain, Conn.
B. S., W. P. I., 1915.

DEPARTMENT OF GENERAL SCIENCE

Edwin Eugene Aldrin, Worcester
A. B., Clark College, 1915.

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Fiftieth Anniversary Celebration

Fiftieth Anniversary Celebration

June Ninth, Nineteen Hundred and Fifteen

It is doubtful if John Boynton would have believed his eyes had he been able to look in upon us last June while the fiftieth anniversary of the founding of Worcester Tech was in progress.

From the single building, the present Boynton Hall, Tech has expanded until its equipment today ranks with the best in the country. At first only youths from Worcester County were accepted as students, but as the value of technical training was more and more recognized applications for admission were received from points outside Worcester County.

The first class graduated in 1871 and since that time 2,000 others have received the course of training at the Institute, which has enabled them to occupy positions well up in the ranks of men. They are scattered over the entire world, but wherever they have gone they have spread the good word for their Alma Mater, and by doing so have made it possible for her to become known far and wide.

After a space of fifty years it was only right that some sort of a celebration should be held. This took place on June ninth, nineteen hundred and fifteen. During the twelve months preceding this date the authorities had made plans for a fitting celebration. Invitations were sent to all the principal colleges, universities, technical schools and societies in the United States to participate, and almost without exception they cordially responded.

On the morning of the exercises the Academic procession formed at the Hotel Bancroft in this order:

Board of Trustees
Governor of Massachusetts and Speaker of the Day
Representatives in Congress
Delegates from Scientific and Engineering Societies
Delegates from Educational Institutions
The Faculty
The Instructors
Alumni
Class of 1915

The procession proceeded up Main Street, preceded by the Salem Cadet Band, to Mechanics Hall. Here it passed between double lines of undergraduates who had marched to the Hall from Tech. After the procession had passed into the Hall the students were allowed to occupy the gallery seats.

The following Scientific and Engineering Societies were represented: Franklin Institute, American Society Mechanical Engineers, American Society for the Promotion of Engineering Education, American Institute of Consulting Engineers, The American Institute of Chemical Engineers, American Society of Refrigerating Engineers, American Society of Swedish Engineers, and the Boston Scientific Society.

All the colleges and universities were represented, in many cases by graduates of W. P. I., who were on the faculties at those institutions. Of especial interest was the case of the College of Hawaii, which sent its delegate, Frank T. Dillingham of the Class of 1901, several thousand miles to be its representative at the celebration.

Doctor Hollis was the presiding officer at the exercises. After an invocation by the Reverend Shepherd Knapp, of Central Church, Doctor Hollis delivered his introductory address, wherein he welcomed the delegates in the name of the Institute. At this time he also had the unpleasant duty of stating that through causes unavoidable Major-General Goethals would be unable to be present. This was a great disappointment to many who had wished to hear this great engineer of our time.

Following "Prexy" His Excellency, Governor Walsh, delivered an eloquent address, after which President Lowell of Harvard in an able address pointed out a few of the ways in which the forces of Nature had been trained.

After music by the Salem Cadet Band, Mr. Booker T. Washington, the world-known negro educator, was called on by President Hollis. Mr. Washington responded with a highly interesting talk on his educational experiences, at the same time pointing out that 1915 was also the semi-centennial of the abolition of slavery.

The last speaker on the program was Dr. Brashear, President of the American Society of Mechanical Engineers, and an authority on lenses and astronomy. Although he had prepared a speech, he said, he had decided at the last moment to discard it and deliver an impromptu one for the benefit of the students. This eloquent speech, with his well

placed humor, proved to be the hit of the day and when he finished he was loudly applauded.

A buffet lunch was served in Boynton Hall directly following the conclusion of the exercises, the guests being carried from Mechanics Hall to the "Hill" by an army of autos.

In the evening a dinner was given at the Bancroft for the guests. The speakers were Mayor Wright, Hon. John W. Weeks, Dr. Arthur D. Little, President Howard Elliot of the New Haven Railroad and Major-General Leonard Wood. Mr. Francis W. Treadway, '90, ex-Lieutenant-Governor of Ohio, was the toastmaster of the evening. Although it was hoped that President Woodrow Wilson would be present, the pressure of world affairs prevented him from leaving Washington. After this banquet the day's celebration was at an end.

Too much credit can never be given to the committee in charge of the celebration, and particularly to Prof. Zelotes Coombs, who had celebrated the close of his twenty-fifth year at the Institute by carrying through to perfection the important duty of Head Marshal. That all the exercises went through without a single slip was due in a large degree to his foresightedness and administrative ability.

Those of us who were fortunate enough to be partakers in the celebration were given an idea of the regard in which Tech is held all over the universe, and one could not help but have bestirred within one's self a higher degree of loyalty for the "School on the Hill"—our Alma Mater.





JUNIOR CLASS



JUNIOR

OFFICERS

President, GLENDON M. POMEROY
Vice-President, HAINES B. QUIMBY
Secretary, RUSSELL H. SMITH
Treasurer, PHILIP C. PRAY

There is no fear in our minds as we turn the Senior's sceptre over to the Class of 1917. During the three years we have known it, it has made a favorable impression around the Hill, and it promises to carry well the dignity of Seniority.

As an athletic class, few can equal its record, even though its achievements have been for the most part in track. In this branch of sport, Francis has held the captaincy of the cross-country team, and the class relay team holds one leg on the "1890 Trophy." Stenberg has proved himself an energetic and efficient manager of the track team, and through his efforts this spring the team intends to follow out a difficult schedule.

During the football season the Juniors were represented on the first team by Captain-elect Duffy, Quarterback Weitzen, with Ward as manager of the team.

It would be folly to attempt to mention here all those who have labored for the good of 1917. They are too numerous. Briefly stated, a few of them are the Editor of the *Tech News*, Manager Baseball, Business Manager and General Manager of the Tech Show, Secretary of the Rifle Team, and countless others of equal importance.

After braving the storms and cross-currents for two years, the remaining members of the class got together for their "Half-way-thru" at Sterling Inn soon after school started last fall. Any attempt at a description of this would be a failure, for such affairs must be lived through to be fully comprehended. Suffice it to say that all arrived home somehow and were ready to take up their problems the next day, in the final lap of two years at Tech.

JUNIOR CLASS

Name and Course	Home
Aldrich, Harry Ralzamon, C.	Uxbridge
Ball, Albert Lloyd, Ch.	Bridgeport, Ct.
Barker, Philip Eugene, M.	Orange
Bates, Edward Munroe, C.	Westboro
Bellows, Clifford Albert, M.	Brookfield
Bird, Arthur Crines, E.	Passaic, N. J.
Bond, LeRoy Whitman, E.	Charlton
Bredenburg, Alfred, Jr., E.	Champlain, N. Y.
Browne, Gordon Warner, Ch.	Norwalk, Ct.
Bunnell, Ercell Weisner, M.	Bozeman, Mont.
Butterworth, Henry Louis, M.	Brookfield
Carlisle, Fred Burch, M.	Hillsboro, O.
Case, Russell Emmons, C.	Worcester
Chapman, Paul Wilson, C.	Brooklyn, Ct.
Chilson, Stanley Grant, E.	Franklin
Clifford, George Edward, M.	Hopedale
Conlin, Walter Francis, C.	Hudson
Cushman, Harry Stanton, C.	Springfield
Cutler, Myrton Harris, C.	Fitchburg
Darling, Clinton Stowell, C.	Springfield
Davidson, Richard Beaman, C.	Worcester
Davis, Hollon Lionel, E.	Sanford, Me.
Doyle, Henry Earl, C.	Fiskdale
Duffy, William Farnan, E.	Worcester
Farnum, Ralph Stott, M.	North Andover
Fay, Clarence Eugene, E.	West Boylston
Fenn, Alfred Chipman, Jr., E.	Higganum, Ct.
Ferguson, Stanton Meserve, C.	Millbury
Flint, Maxton Hale, C.	Chester
Francis, Alfred West, Ch.	Hartford, Ct.
Freeman, Hedges Spelman, C.	Westfield
French, Harold Brigham, M.	Boylston
Fung, Wai, M.	Canton, China
Gardner, Elmer Henri, C.	Franklin, N. H.
Gardner, Leland Adams, E.	Rutland, Vt.
Gifford, Walter Henry, C.	Falmouth
Green, William Herbert, M.	Leominster
Greene, Ronald Earle, E.	Hudson
Haigh, Herbert Richard, E.	Methuen
Hanckel, Robert Champney, C.	San José, Costa Rica
Hartson, David Elmer, C.	New Britain, Ct.
Hatch, Harold Albert, C.	Worcester

Heywood, Charles Errol, M.	Worcester
Higgins, Dana Francis, E.	Athol
Holbrook, Frederic Lincoln, Ch.	Rutland
Hollerith, Charles, M.	Washington, D. C.
Hollerith, Herman, Jr., M.	Washington, D. C.
Holmstrom, Andrew Birger, C.	Worcester
Hubbard, Clyde Tuttle, C.	Fitchburg
Humphrey, Hartley Cranston, E.	Tiverton, R. I.
Ireland, Gilbert Mariano, C.	New York, N. Y.
Janvrin, Everett Brown, E.	Hampton Falls, N. H.
Jefts, Frank Milton, E.	Maynard
Jones, Emery Williamson, M.	Worcester
Karcher, Earl Hamilton, Ch.	Springfield
Kelley, Herbert Charles, C.	Malone, N. Y.
Kennedy, Clifford Ward, E.	Milford, Ct.
Kimball, Lester Willis, C.	Cliftondale
King, Everett Francis, C.	Worcester
King, John Andrew, Ch.	Worcester
Knapp, Peter Richard, E.	Leominster
Knight, Earl Rhodes, M.	Providence, R. I.
Lacouture, Arthur Joseph, C.	Millbury
Lambert, Richard Davis, M.	New Brighton, N. Y.
Lawrence, Roger Cornell, E.	Ayer
Lawton, Kirke Brooks, M.	Athol
Leggett, John Morris, E.	Waterbury, Ct.
Lyon, William Riga, E.	Worcester
Mackenzie, William Lloyd Garrison, C.	Grafton
Migueis, Alberto José, E.	Brazil
Maker, Charles Gilbert, C.	Fall River
Matte, Paul Joseph, C.	Worcester
Maynard, Donald Brown, M.	Worcester
Maynard, Frank William, C.	Rutland
McKerrow, Alan Drummond, E.	Newtonville
Merritt, Ralph Nichols Stratton, M.	Worcester
Mirick, Philip Carlton, M.	Princeton
Mitchell, Elmer Theodore, E.	Riverside, Ct.
Murphy, Frank James, M.	Worcester
O'Connor, Philip Joseph, C.	Worcester
O'Neill, William Joseph, E.	Springfield
Padgett, Joseph Edward, M.	Worcester
Page, Raymond Henry, E.	Phenix, R. I.
Parks, Warren Wright, C.	Russell
Perkins, Cleon Arthur, Ch.	Rutland, Vt.
Pike, Edgar Newton, E.	Ashland
Pomeroy, Glendon Miller, M.	Westfield

Pomeroy, Rupert Cole, M.	Dalton
Pond, Edward Charles Joseph, C.	Worcester
Powers, Leon Herbert, C.	Nashua, N. H.
Pray, Philip Cummings, E.	Worcester
Prince, Robert Knott, Ch.	Westfield
Putnam, Winfield Mills, C.	Worcester
Quimby, Haines Bedde, C.	Worcester
Reed, Carl Bicknell, C.	Whitman
Robinson, Alfred Eugene, M.	Hinsdale
Robinson, George Earl, C.	Lowell
Safford, Hermon French, M.	Leominster
Sessions, William Vyne, Ch.	Hampden
Sheldrick, Henry William, E.	Wilton, N. H.
Shumway, William Earle, C.	Worcester
Smith, Arlington Argyle, C.	Athol
Smith, Russell Howard, C.	Haverhill
Smith, Seth Greenleaf, M.	Newton Center
Spofford, Leslie Holden, E.	Newington Junction, Ct.
Stearns, Albert Wells, C.	Providence, R. I.
Stearns, Walter Irving, M.	Everett
Stenberg, Thornton Rice, C.	Worcester
Swallow, Francis Peloubet, M.	Gardner
Taylor, Ralph George, Ch.	Lowell
Teaze, Moses Hay, C.	Newport, R. I.
Thompson, Samuel Henry, C.	Worcester
Thrasher, Charles Austin, C.	Westfield
Thurston, William Conrad, E.	Gloucester
Tilton, Clarence Boynton, Ch.	Fitchburg
Towle, Norman Lincoln, E.	Fall River
Tulloch, Donald Hugh Campbell, Ch.	Worcester
Ward, Ralph Sutcliffe, M.	Athol
Warner, John A. Carpenter, M.	Putnam, Ct.
Wassall, Allen Dexter, E.	Hartford, Ct.
Watson, Earl Phillips, Ch.	Spencer
Weitzen, Fred, M.	Torrington, Ct.
Wheeler, John Randolph, M.	Mystic, Ct.
Wheeler, Levi Earle, M.	Worcester
White, Harold Steinmetz, E.	Bridgeport, Ct.
Willard, Albert, M.	Springfield
Wong, Dick, M.	Canton, China
Wood, Lawrence Dresser, M.	Pittsfield
Wyllie, Thomas Hamilton, C.	Newport, R. I.
Wyman, Hollis Judson, M.	Chegoggin, N. S.

SOPHOMORES



OFFICERS

President, DAVID M. GASKILL
Vice-President, NORMAN P. KNOWLTON
Secretary, JOHN F. KYES, JR.
Treasurer, THOMAS E. CHILD

THE TALE OF THE SOPHS.

From the country round about us,
Came we here as verdant Freshies,
Brave we were and full of courage,
Full of hope with strength of giants.
Stopped we by the clear, cool Blackstone,
By the city of the Techites,
Where we sought to gain much knowledge,
Where we hoped to grow to men.

Sophs, Professors—all attempted
Down below to overthrow us;
But with dauntless chiefs amongst us
We contrived to win out o'er them.
Though the Sophs through water pulled us,
Ne'er our grip on life we loosened.
Plugged we onward, ever hopeful,
Plugged with books, with brain and "bull,"
So that now as Sophs of Worcester
We have gained the ranks of men.

Springtime in the year of sixteen,
Forces us to say our farewell
To the class which ever helped us,
Fostered, guarded and advised us.
Good-bye say we now to Seniors,
May your trails be ever sunlit,
May you e'er escape the jungles
And the pitfalls on your way.
Though the gods decree misfortune
And the fates against you seem,
Remember—there's a class behind you
Takes you as it knows you are—true men.



SOPHOMORE CLASS

SOPHOMORE CLASS

Name and Course	Home
Abbot, Leonard Harris, E.	Wilton, N. H.
Ajemian, Shahin Avedis, C.	Armenia, Asia Minor
Alvord, Charles Clinton, M.	Worcester
Andrews, Clark Flavel, C.	Monson
Anton, Edward Louis, C.	Bridgeport, Ct.
Apostolou, James, E.	Cavalla, Greece
Archibald, John Osborn, E.	New Rochelle, N. Y.
Arthur, Stanley William, E.	Worcester,
Barker, Bryan Woodward, E.	Concord, N. H.
Bent, Richard Harvey, C.	Plymouth
Bloss, Ernest Kaelble, E.	Worcester
Brackett, Frank Harmon, C.	Newmarket, N. H.
Butler, Freeman Prescott, Ch.	Waltham
Buttler, Howland, Ch.	Worcester
Callahan, Russell Hayward, C.	Worcester
Cassavant, Frederick Edmund, C.	Worcester
Chan, Ernest Bing, C.	Shanghai, China
Chandler, George David, C.	Newburyport
Cheever, Allston Henry, E.	Cambridge
Child, Thomas Edgar, E.	Hartford, Ct.
Coggeshall, Ivan Stoddard, E.	Newport, R. I.
Collins, Thomas Timothy, E.	Springfield
Converse, Leroy Smith, Ch.	Fitchburg
Crane, Howard Partridge, M.	Rutland, Vt.
Crane, Myrick, Ch.	Quincy
Daniels, Richard Mellen, M.	Swampscott
Davis, Harold Stebbins, E.	Fitchburg
Dennen, Walter Bernard, M.	Worcester
Doolittle, Wentworth Prentice, M.	Princeton
Dows, Harold Winthrop, M.	Lowell
Drury, Percival Prouty, C.	Worcester
Eaton, Wilfred Agard, M.	Stafford Springs, Ct.
Emerson, George Warren, 3rd, M.	Jewett City, Ct.
Ephlin, Eber William, C.	Methuen
Eresian, Ervant Hagop, E.	Worcester
Everett, Osborne Taylor, C.	Bolton
Firth, Norman Charles, E.	Worcester
Fitzmaurice, Gardiner Morgan, E.	Stamford, Ct.
Foley, Frank Joseph, E.	Palmer
Forsdale, Oscar Herbert, Ch.	Worcester
Foss, Ray Alden, C.	Fitchburg

Foster, Howard Simmons, M.	Westboro
French, Walter Sheffield, M.	Worcester
Fuchs, William Wolfgang, Ch.	Stamford, Ct.
Gannon, George Henry Paul, E.	Clinton
Gaskill, David Mijamin, Ch.	Blackstone
Gay, Grant Elliott, G. S.	Worcester
Gove, George Huntington, Ch.	Barre, Vt.
Green, Arthur Gordon, E.	Worcester
Guerin, William James, Ch.	Worcester
Hall, William Wheeler, Jr., C.	Malden
Haselton, Page Smith, E.	Nashua, N. H.
Hayford, Warren, M.	Kittery, Me.
Heinritz, Maurice White, M.	Clinton
Herlihy, Raymond Leo, C.	North Brookfield
Hirst, Russell Walker, M.	New Bedford
Holmes, Franklin Theodore, M.	Springfield
Hooker, Albert Dwight, Jr., E.	Brookfield
Howard, Charles Spaulding, Ch.	Townsend
Howes, Hugh Semple, M.	Ashfield
Hubbard, Frederick William, E.	Englewood, N. J.
Huggins, Charles Newel, Ch.	Portland, Ore.
Ingalls, Nelson Powell, E.	Newburyport
Jewett, Leroy Roberts, E.	Lynn
Jones, Edgar Ross, M.	Worcester
Kalagher, William Peter, Ch.	Worcester
Kennedy, William Francis, M.	Fall River
Kidder, Moses Stewart, C.	Orange
Knowlton, Norman Pomeroy, Ch.	Worcester
Kranz, Edward Louis, C.	Fall River
Kyes, John Fenderson, Jr., M.	Worcester
Lawton, Heyward Francis, Ch.	Newport, R. I.
Lemay, Henry Louis, Ch.	Pawtucket, R. I.
Leventhal, Lewis Fletcher, M.	Hartford, Ct.
Lewis, Richard Charles, E.	Ansonia, Conn.
Lillibridge, Hoxsie Wanton, E.	Charlton
Lovell, Roger Milton, C.	West Boylston
Luce, Francis Newman, Ch.	West Boylston
Luther, Benjamin, E.	Fairhaven
Magoun, Frederick Hamilton, E.	Bath, Me.
Marshall, Ralph Merriman, M.	Hartford, Ct.
Mathison, Raymond Lauderdale, M.	Springfield
McCullough, Gleason Harvey, C.	Worcester
McCutcheon, Floyd Douglas, M.	Worcester
McNulty, Daniel Augustine, E.	Waterbury, Conn.

Millard, Arthur Milo, E.	Norwich, Ct.
Moore, Castle, M.	Waterbury, Ct.
Moore, Charles Chilton, Ch.	Washington, D. C.
Moore, Edmond Eugene, Jr., Ch.	Ware
Mossberg, Iver Oscar, M.	Chicopee Falls
Moulton, Albert Bigelow, E.	Worcester
Newcomb, Raymond, E.	Dorchester
Newell, Hobert Hallett, E.	Barre, Vt.
Nierendorf, Oscar August, M.	Hartford, Ct.
Pattillo, Donald Knutsford, Ch.	Lowell
Peterson, Chester Albert Alexander, C.	Brockton
Powers, Ray, Ch.	Orange
Reavey, John Henry, C.	Newport, R. I.
Rice, Harold Leighton, M.	Manchester, N. H.
Richardson, Maurice Willard, E.	Leominster
Rodier, Alphonse Joseph, C.	Worcester
Rowell, James Stanley, C.	Bristol, Ct.
Sargent, Howard Crosby, C.	Malden
Schmidt, Iver Godfrey, C.	Worcester
Shute, James Madison, E.	Uxbridge
Sibley, Albert Tarrant, M.	Millbury
Smith, Lucius Myron, E.	Ware
Soulliere, Ernest Frederick, Ch.	Worcester
Stewart, Thomas, Jr., C.	Bridgeport, Ct.
Storrs, John David, M.	Newport, Vt.
Strachan, George Campbell, M.	Stamford, Ct.
Taylor, Roland Herbert, C.	Worcester
Tenney, Ralph Francis, Ch.	Leominster
Thompson, Harold William, E.	Brockton
Tomasi, Louis Domenic, E.	Barre, Vt.
Trott, Raymond Page, Ch.	Wenham
Turner, Harrison Irving, E.	Methuen
Vinal, Leroy Willis, M.	Leominster
Waddell, Charles Lorne, E.	Ridgewood, N. J.
Walker, Oakley Cutler, M.	Worcester
Werme, Melcher Gustaf, E.	Worcester
Whitlock, Ernest Willard, C.	Naugatuck, Ct.
Wilkie, George Francis, Jr., E.	Worcester
Wilkinson, Winfred Durfee, E.	Fall River
Winter, William Henry, C.	Webster
Wood, Frederick Eugene, M.	Springfield
Woods, Arnold Howe, C.	Lunenburg
Woodward, Edgar George, M.	Andover, N. H.
Yale, Armand Edward, E.	Providence, R. I.

1916 · AFTERMATH · 1916



FRESHMAN CLASS

1916 · AFTERMATH · 1916



President, R. H. KEITH
Vice-President, E. H. LLOYD
Secretary, T. B. RUTHERFORD
Treasurer, A. H. WELCH

The Class of 1919 has finished its first year at Tech and during that time has shown conclusively that it has acquired the necessary spirit. And it was all accomplished without the use of Freshman rules, which have been thought necessary up until this last year, which goes to show that the class is made up of fellows with an unselfish interest in the welfare of the Institute.

At the beginning of our college course, nineteen-nineteen jumped into the activities with a large representation in the cross-countries. In football the class was represented by Munz, Morse and Canfield, the latter playing in enough games to earn his "W."

It was with sorrow that the "beefy" Sophomore rope-pull team pulled us through the muddy waters of Institute Pond. It was not because we were less brave or over-confident, but because we lacked both weight and organization. At that, however, our fellows were game to the end, and their last stand in the middle of the stream will always be remembered.

At mid-years a few of us were left by the wayside, but that served only as an incentive to the rest of us. We plunged into the mysteries of "Analyt" and "Descrip" with a get-there determination. "Doc" Bonnet with his "general quizzes" has worried us a bit lest he should call on us when unprepared, but somehow we have survived.

A large number of Freshmen answered the call for baseball this Spring, and so many of them survived that a look at the second team gave one the impression that it was a team representing 1919. Titcomb and Carlson's work has been of such a high quality that they have become permanent members of the Varsity.

FRESHMAN CLASS

Name	Home
Allen, Raymond Dearborn	Skowhegan, Me.
Amsden, Burton Robert	Athol
Anderson, Arvid Englebert	Falmouth
Arnold, James Earle	Westboro
Atkinson, Sydney Marland	Natick
Bannon, William Thompson	Waterbury, Ct.
Barber, Frederick Gordon	Canal Zone, Panama
Bassett, Arthur Whiting	Greenfield
Bean, Laurence Guy	Worcester
Beers, Henry Sanford	Newtown, Ct.
Bemis, Edwin Walter	Holyoke
Benson, Carl Iver	Worcester
Berg, Carl Harold	Worcester
Berry, Gordon King	Northbridge
Bragdon, Stanley Bryant	Westbrook, Me.
Brennan, Edward Michael	Waterbury, Ct.
Briggs, Stuart Wallace	Worcester
Bronson, Donald Nichols	Worcester
Brooks, Howard Leonard	Holyoke
Bryant, Everett Charles	Worcester
Bubier, Sylvester Breed	Amesbury
Burleigh, Edward Irving	Tavares, Fla.
Caldwell, George Woodworth	Worcester
Campbell, John Joseph, Jr.	Kingston, N. Y.
Canfield, Donald Treat	St. Petersburg, Fla.
Carlson, Alden Gustaf	Worcester
Carpenter, Howard Sellew	Waterbury, Ct.
Carpenter, Roy Harvey	Worcester
Chace, Myron Dewey	Worcester
Chaffee, Roger Brown	Oxford
Clark, George Leverett	Norfolk, Ct.
Clarke, Donald Bruce	Northampton
Clarke, Walter Bacheller	Newport, R. I.
Clifford, Daniel Lawrence	Worcester
Coghlin, John William	Worcester
Cole, Michael Benjamin	Woonsocket, R. I.
Copeland, Warren Ellsworth	Worcester
Cosgrove, Mark Francis	Worcester
Cowden, Merle Chandler	New Bedford
Crossman, Kenneth Ward	Berlin
Davenport, William Henry	Griswoldville

Davis, Leon Moody	Newburyport
Dawson, Cyril William	Stafford Springs, Conn.
Doane, Roland Dudley	New York, N. Y.
Durkee, Leland	Worcester
Ecclestone, Arthur Greenhalge	Worcester
Englund, Carl Godfrey	Worcester
Ericsson, Eric Sigurd	Worcester
Ewing, Thomas Harlan	Worcester
Fairbanks, Philip Goodnow	Fitchburg
Farrington, Arthur Everett	Roxbury
Ferry, Arthur Kenyon	Pittsfield
Fitzmaurice, James Edward	Providence, R. I.
Freeland, Rudolph Harold	Holden
Garland, Milton Ward	Harrisburg, Pa.
Gibbs, Donald Frank	Chester
Gile, Matthew Sullivan	Lebanon, N. H.
Gleason, Harold Hinckley	Worcester
Goddard, Myron Charles	Fairhaven
Goodwin, Dana Dudley	Fitchburg
Greeley, Francis Bartlett	Hudson
Griffin, Sidney Payson	Winthrop
Grimwade, Roger Maurice	Charlton City
Hammond, Allen Dexter	Mattapoisett
Hanin, Michael	Worcester
Hanmer, Henry Francis	Wethersfield, Ct.
Harcus, Wilmore Custer	Brockton
Harvey, Oscar William	Worcester
Haycock, Robert Earle	Washington, D. C.
Heffernan, Raphael William	Spencer
Heywood, George Henry	Gardner
Hinckley, Roger Myron	Brunswick, Me.
Hines, John Henderson	Uvalde, Tex.
Hofstedt, Herbert Frederick	Winchendon
Holbrook, Philip Henry	North Grafton
Hough, George Vernon	Oak Ridge, N. J.
Humphrey, Judah Hathaway	Rochester
Hunting, Harold Stanley	Fort Wayne, Ind.
Johnson, Gustave Verner	Attleboro
Johnson, Helmer Philip Julius	Worcester
Jones, Samuel Paul	Columbus, Ind.
Keith, Russell	Worcester
Kimball, Hosmer Robbins	Northboro
Kinosian, Harry John	Worcester
Klapholz, Maurice	Springfield

Knipping, Anton Louis, Jr.	New Haven, Ct.
Kunzelman, Francis Jacob	Worcester
Lawton, Cyril Cadwell	Millbury
Leland, Raymond Clarence	Lowell
Leonard, Richard Spencer	Bellows Falls, Vt.
Leupelt, Gustav, Jr.	Elmira, N. Y.
Lloyd, Eldridge Hinckley	Lawrence
Lockey, Harold Holden	Milford
Luce, Willis Chaffee	Vineyard Haven
McCaffrey, George Edward	Clinton
McConville, Howard Arthur	Florence
McDonald, James Arthur	Holyoke
Malm, Edwin Lemuel	Worcester
Marsh, Burton Wallace	Allston
Mayo, Howard Armstrong	Framingham Center
Merritt, Harry Chamberlain	Worcester
Merseles, Henry Raymond	Jersey City, N. J.
Mirick, Harry Lawrence	Princeton
Moelter, Henry Bescher	Attleboro
Moran, James Joseph	Clinton
Morin, Roy Leo	Spencer
Morse, Lyle Jewell	Bradford
Morse, Richard Swift	Marlboro
Munz, Hugh Earle	Oneida, N. Y.
Olson, Richard Leander	Worcester
Parsons, Charles Warren	Rye, N. H.
Pellett, Milton Alexander	Worcester
Peterson, Robert Arvid	Worcester
Pettine, Vincent Joseph	Providence, R. I.
Pexton, Frederick	Rutland, Vt.
Prince, Ralph Adams	Westfield
Quimby, Malcolm Jesse	Foxboro,
Radom, Robert Abraham	Hartford, Ct.
Raymond, Paul Alfred	East Harpswell, Me.
Reid, Henry John Edward	Springfield
Rich, George Rollo	Worcester
Robertson, James Baxter	Paterson, N. J.
Root, Edwin Hubbard	Greenfield
Ropes, Lawrence Gardner	New York, N. Y.
Roraback, George Washington, Jr.	Westfield
Russell, Kenneth Clifford	Still River
Rutherford, Thomas Bruce	Brooklyn, N. Y.
Sandstrom, Herbert Paul	Worcester
Sawyer, Everett Percival	Worcester

Schooner, Arthur	Milford
Sears, Arthur Colton	Dalton
Sessions, Robert Crighton	Cleveland, O.
Shevitz, Leon	Worcester
Sjöstrom, Raymond Bruce	Ware
Smith, George Arthur, Jr.	Worcester
Smith, Wilder Stephen, Jr.	Sutton
Snow, Arthur Prouty	Worcester
Sprague, Fred Lewis	Leicester
Stange, Rudolph Carl	Orange
Staples, Charles Warren	Burlington, Vt.
Starr, Conant Lamson	Spencer
Sweetser, Chauncey Edwin	Worcester
Swenson, Kasper Olaf	Worcester
Taylor, Raymond Edward	Worcester
Tenekejian, Zaven Nigoghos	Harpoot, Armenia
Terwilegar, Fred Albert	New Bedford
Thompson, Ernest, Jr.	Worcester
Titcomb, William Sewall	Kennebunk, Me.
Titus, Augustin Charles	Newport, R. I.
Towle, Cleo John	St. Albans, Vt.
True, Edward Milton	Litchfield, Me.
Vepsala, Alfred	Gardner
Walker, Ernest Frederick	Worcester
Welch, Austin Horace	Fitchburg
Whitney, Hobart Arthur	Leominster
Whitney, Watson Holdbrook	Orange
Whittemore, Alfred Mercer	Nashua, N. H.
Whittemore, Carl Leslie	Worcester
Wilder, Samuel Alden	Springfield
Williams, Clifford Henry	Hartford, Ct.
Williams, Ralph Avery	Worcester
Wilson, Proctor Philip	Franklin
Winsor, Earl Austin	Westboro
Woodman, Charles Lorenzo	Plymouth, N. H.
Woodward, Albert Lester	Hudson
Wright, Frank Leonard	Newtown, Ct.
Wulf, Oliver Reynolds	Norwich, Conn.
Yen, King Lau	Canton, China
Zions, Louis	Fall River



ATHLETIC COUNCIL

Standing: Knight, Butterfield, Bullard, Rankin, Francis. Seated: Darling, Long, Stone, Mossberg.



ATHLETICS

Dedication of Alumni Field Gates

During the time of the Fiftieth Anniversary Celebration last June the ornamental gates to the Athletic Field at the corner of Institute Road and Park Avenue were formally presented to the Institute by Harry Worcester Smith and other members of the Class of 1887.

A considerable ceremony accompanied the transfer of keys. A large number of students, together with many alumni, formed at Boynton Hall, and with Prof. Coombs as marshal marched to the scene of activities. Amid eloquent speeches from Charles G. Washburn, Mr. Edward F. Miner and Mr. Smith the deed and keys were transferred to the Trustees of the Institute.

Mr. Washburn traced the course of athletics at Tech since its inception, and showed the wonderful changes which have been brought about. Harry Worcester Smith told of the desires of his class and himself in the gift of the gates. They believed that an institution such as ours would turn out better men and better engineers if a suitable place could be furnished for physical exercise, not a place for the few but a place for the many. He described the Englishman's idea of a "sportsman" and how the term differed from our meaning.

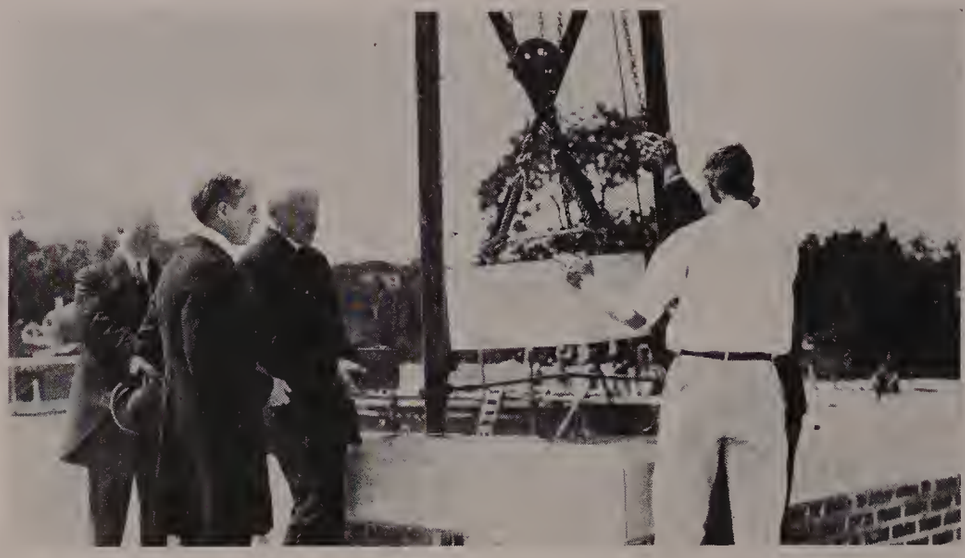
Just as the keys were transferred the sun, which up to this time had remained in obscurity, broke suddenly through a rift in the clouds. This was considered a good omen for the future of Tech Athletics.

But this did not conclude the exercises, by any means. Shortly after Mr. Smith had finished his speech the President of the Class of 1915 stepped forward and presented Prof. Coombs with 25 roses in recognition of his 25 years as a member of the Tech Faculty. He had barely recovered from the complete surprise given to him by the Seniors when Dr. Conant mounted the rostrum and in a few words presented the same eminent educator with a gold watch as a mark of the esteem in which he was held by the Faculty. This expression of gratitude and honor by students and Faculty was too much for Prof. Coombs and for the first time in our remembrance he was at a complete loss for words. During those 25 years "Coombsie" has seen Tech grow from a few buildings, with fewer instructors, to an Institute of recognized standing, and he must take a personal pride in the fact that during those many years he has had a hand in the making and shaping of future destinies for W. P. I.

It is not often that a man stands by a school for the length of time which Prof. Coombs has been at Worcester Tech. He has always given of his best and has worked untiringly for the promotion of Tech. The present Senior Class hopes that this is but a beginning and that he will be here to receive us when we return to the Hill for our twenty-fifth reunion.



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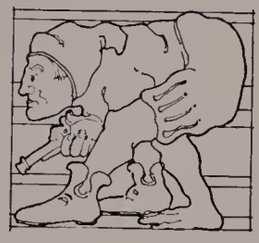
Laying the Cornerstone

The New Gymnasium

The new Gymnasium, financed by the Alumni, designed by Hewitt & Brown of Minneapolis and constructed by the Central Building Co. of Worcester, is now a reality.

After many months of waiting and hoping, the ground was broken for the foundation a year ago this spring. Last June the cornerstone was laid with appropriate ceremonies, and from that time on the work has progressed rapidly. The brick walls rose higher and higher until at last everything was in readiness for the roof-trusses, which went into place without a hitch. And so the work has been carried on with such success that the present plans are to dedicate the finished structure during Commencement Week.





The building, placed on the old Bliss Field, is constructed of red brick with limestone trimmings. Encircling the top under the eaves is a frieze of grotesques, cuts of which are shown on this page.

When completed, the gym will be as well appointed as any in New England. The rifle and pistol ranges, together with four bowling alleys, take up the basement. On the first floor is found the locker-rooms for the home and visiting teams, with their connecting baths, as well as rooms for the Athletic Association and Y. M. C. A. The third floor is mainly occupied by the apparatus room, with dimensions of 120 x 60. Adjacent to this is the Director's office and also kitchen space for any banquets that may be held in the gym. Squash courts, which extend up through two floors, may be entered from this level. Around the balcony is the running track with about eighteen laps to the mile. Boxing and fencing rooms twenty-four feet square are placed on this same floor.

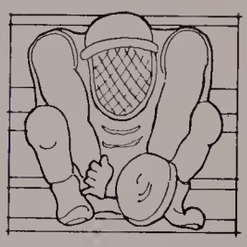




With such opportunities as will be available at Tech from this time on, due to the completion of the Gymnasium, all the branches of athletics should take a bound. It is to be hoped that basketball will be adopted, for in the school at the present time is materiál enough for a team that would rank high in local intercollegiate contests. Fencing, boxing, wrestling and even water polo are sports that should be seriously considered. With this variety to







select from, a man would be very odd indeed that could find nothing of interest among them. The physical welfare of the students will be bettered: Tech teams will be better winners; Tech spirit will be strengthened and deepened; all due to the generosity and labor of our loyal Alumni. The Class of '16 leaves just as the building is completed, and outside of the Senior Dance will never have the use of it, but because we harbor an attitude of unselfishness, we are looking forward to the value of the gym to others, rather than to ourselves, and therefore speak no regrets.







A large number of players reported to Coach Ostergren soon after school opened last fall, and from them he built up a team far better than the average Tech team. Although all the games were not victories for us, since several of the teams on the schedule were out of our class, nevertheless there was sufficient satisfaction in the knowledge that the team was fighting every minute. Coach Ostergren was continually handicapped by injuries to the prominent players, and this fact alone prevented the securing of more victories.



Manager Ward

Team

Left End	Stone, '16
Left Tackle	Storrs, '18
Left Guard	Cassavant, '18
Center	Canfield, '19 / Sargent, '18
Right Guard	Wiedenmann, '16
Right Tackle	Banan, '16
Right End	Duffy, '17
Quarterback	Dunbar, '16 / Weitzen, '17
Left Halfback	Mossberg, '18
Right Halfback	Royal, '16 / Archibald, '18
Fullback	Kallagher, '18



Captain Banan



Coach Ostergren

1915 Schedule

		W. P. I.	OPP.
Sept. 25.	Connecticut "Aggies"	7	0
Oct. 2.	University of Vermont	0	0
Oct. 16.	Rhode Island State	6	0
Oct. 23.	Massachusetts "Aggies"	0	27
Oct. 30.	Wesleyan	6	42
Nov. 6.	Norwich University	6	0
Nov. 13.	New Hampshire State	0	20
Nov. 20.	Rensselaer	0	9
Nov. 25.	Holy Cross	0	26



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Sherwood Fors Storrs Wiedenmann Archibald Canfield
Cassavant Dunbar Manager Ward Royal Sargent Weitzen
Mossberg Duffy Captain Banan Stone Kallagher



BASEBALL TEAM



The baseball squad this spring received the advantage of indoor practice at the Trade School. This innovation had the effect of getting the team into shape before the first game, as well as to give the pitchers the necessary workouts. The benefits of this spring training have shown themselves in the games already played.

Team

Catcher	Stone, '16
Pitcher	Luce, '18 / Tomblen, '17
First Base	A. Green, '18
Second Base	R. Green, '17
Third Base	Carlson, '19
Shortstop	Reed, '17
Left Field	Titcomb, '19
Right Field	Brooks, '16 / Woodman, '19
Center Field	Wheeler, '17

Utility Infield: Warner, Case, Atkinson, S. Bragdon, Morse.

Utility Outfield: Royal, Kallagher, King.



Captain Stone

Schedule

	W. P. I.	OPP.
Tufts	1	9
Springfield Training	1	19
Wesleyan	2	7
Bates	9	2
Trinity	6	7
Connecticut "Aggies"	7	4



Manager Pomeroy



Coach Matthews



New Records

Captain Ricker: Quarter-mile, 50 1-5 seconds; 220-yard dash, 22 1-5 seconds.
R. H. Taylor, '18: Low hurdles, 26 4-5 seconds.
I. G. Schmidt, '18: High jump, 5 feet, 8 1-4 inches.

Tech Relay Team: Powers, '17, Knowlton, '18, Greene, '18, Ricker, in new time of 3 minutes 31 1-5 seconds.



Captain Ricker

Team

Dashes: Captain Ricker.
Mile: Francis, Powers, Garland, Sanderson.
Two-mile: Francis, Powers, Garland.
Jumps: Schmidt, Hazelton, Banan.
Weights: Chaffee, Banan, Archibald, Hazelton.
Hurdles: Taylor, Schmidt.
Pole Vault: Gorman.

Schedule

		W. P. I.	OPP.
May 6.	Colby	68	58
May 12.	New Hampshire State	69	57

At Penn Relays, Tech came in second to Rutgers, with the other members of their class, Bucknell, Lehigh, Lafayette, Dickinson and George Washington University far behind.

The Freshmen won the 1916 interclass meet with a total of 65 1-2 points; the Sophomores coming in second with a total of 45 points.

RELAY SEASON

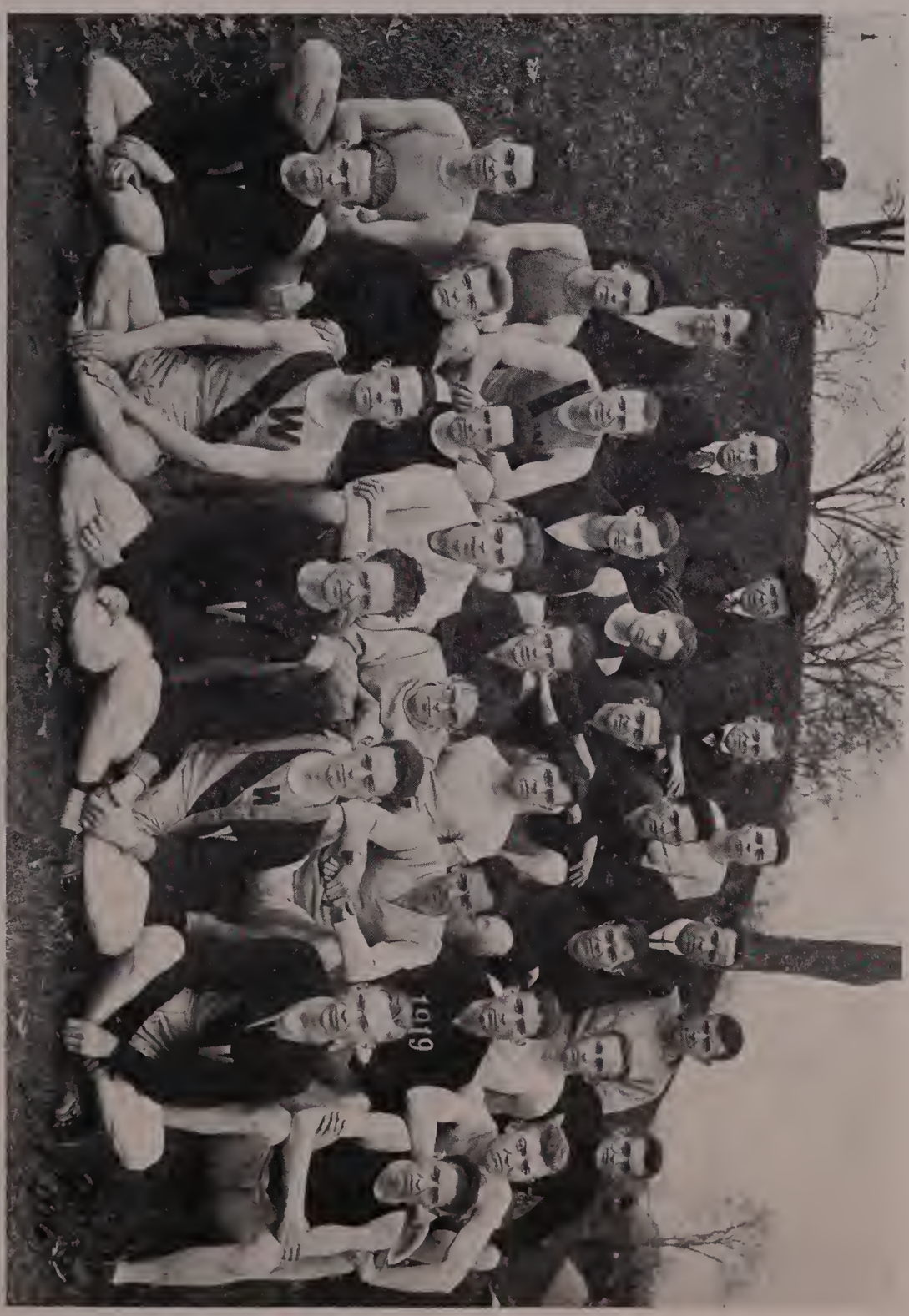
OPPONENT	W. P. I.
Boston College	Won
M. A. C.	Lost (Protested)
Bowdoin	Lost
M. A. C.	Lost



Manager Stenberg



Coach O'Connor



TRACK TEAM

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Pray, Assistant Manager — Powers — Stenberg

A. Green — Cleveland — Ricker, Captain — Knowlton

Tennis



Tomblen
1915 Singles Champion

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FOOTBALL

BANAN, '16
STONE, '16
DUNBAR, '16
ROYAL, '16
SHERWOOD, '16
WIEDENMANN, '16
FORS, '16
DUFFY, '17
WEITZEN, '18
SHUMWAY, '17
WARD, '17
TOMASI, '17
STORRS, '18
CASSAVANT, '19
KALAGHER, '18
SARGENT, '18
CANFIELD, '19
MOSSBERG, '18
ARCHIBALD, '18

BASEBALL

STONE, '16
TOMBLEN, P. G.
DUNBAR, '16
WHEELER, '17
R. GREEN, '17

TRACK

RICKER, '16
FARNSWORTH, '16
GORMAN, '16
CLEVELAND, '16
C. H. BURGESS, '16
CHAFFEE, '16
BANAN, '16
POWERS, '17
FRANCIS, '17
KING, '17
SMITH, '17
A. GREEN, '18
HAZELTON, '18
TAYLOR, '18
SCHMIDT, '18
KNOWLTON, '19



RIFLE TEAM

Left to right: Janvrin, Fenn, Banan, Reid, Taylor, Darling, Captain Bragdon, Livermore, Wilder, Bredenberg, Lewis, Davis, N. R. A. Judge.

Rifle Team

The new change in rules this year causing all shooting to be done in the Prone position did not work out to the advantage of the Tech Rifle Team, and consequently its work was not up to the average of the preceding years.

When the call was issued for candidates for this year's team there were only three Varsity men to report: Captain Bragdon, Banan and Darling, but with forty underclassmen to pick from, hopes were held out for a successful team, although it was realized that the equipment at hand was not conducive to a championship team.

As usual, an interclass tournament started off the season. This was easily won by the Juniors, captained by Janvrin. During these matches several promising "shots" were unearthed and further instructed in the art. Gradually the better men were selected so that at the Commencement of the Intercollegiate season the line-up was very well known. However, after each match any members not on the Varsity team, who had shown ability and steady improvement were given a chance to try out for the next week's match. This competition made it plain that no man's position was secure from one week to the next.



Captain Bragdon

Several records were broken or equalled during the season. W. T. Livermore, '18, and A. Bredenberg, Jr., '17, the former a newcomer from M. A. C., equalled the world's record by making a possible 200, while H. J. E. Ried, '18, came near to it with a 198. All these marks better the old range record of 195, held by Banan, '16, but the latter's score was made under the old rules.

This year also, Prof. Davis acted as N. R. A. Judge, and for the many helpful hints received from him the Club wishes to express its gratefulness.

In the new gym the Rifle Club will have up-to-the-minute quarters, the firing points will be arranged according to the best authorities, and space enough will

be allotted to allow four fellows to shoot at one time. This will do away with all tiresome waiting, such as has been the trouble with the present range. All these improvements must work to the advantage of the Team.

The percentages of the five highest men who received their "RWT" are as follows: W. T. Livermore, 193.5; A. H. Bredenberg, Jr., 192.7; R. C. Lewis, 191.0; E. L. Bragdon, 190.8; C. S Darling, 190.7.

TEAM

E. L. BRAGDON, '16, Captain

H. F. BANAN, '16	R. C. LEWIS, '18
A. BREDENBERG, JR., '17	R. H. TAYLOR, '18
C. S. DARLING, '17	W. T. LIVERMORE, '19
A. C. FENN, JR., '17	H. J. E. REID, '19
E. B. JANVRIN, '17	S. A. WILDER, '19

OFFICERS

PRESIDENT, H. F. BANAN, '16
SECRETARY, E. B. JANVRIN, '17
TREASURER, R. C. LEWIS, '18
N. R. A. JUDGE, PROF. J. C. DAVIS


ORGANIZATIONS
ELB

Tech Council

OFFICERS—FIRST HALF-YEAR

PRESIDENT, R. W. YOUNG

SECRETARY, DR. FARRINGTON DANIELS

FACULTY MEMBER
DR. G. H. HAYNES

C. L. STORMS, 1916
T. W. FARNSWORTH, 1916
L. H. POWERS, 1917
G. M. POMEROY, 1917
D. M. GASKILL, 1918
R. KEITH, 1919

OFFICERS—SECOND HALF-YEAR

PRESIDENT, C. A. STONE

SECRETARY, DR. FARRINGTON DANIELS

FACULTY MEMBER
DR. G. H. HAYNES

H. F. BANAN, 1916
E. H. FRANCIS, 1916
G. M. POMEROY, 1917
C. W. KENNEDY, 1917
D. M. GASKILL, 1918
R. KEITH, 1919



TECH COUNCIL

Banan Gaskill Pomeroy Francis

Kennedy Dr. Haynes Stone Dr. Daniels Keith

The Interfraternity Council

President, Prof. H. B. Smith
Secretary, Dr. J. A. Bullard

Phi Gamma Delta	Harold Cleveland	1916
Sigma Alpha Epsilon	D. Keith Beach	1916
Phi Sigma Kappa	Harris Whiting	1916
Alpha Tau Omega	Frank Gifford	1916
Delta Tau	A. B. R. Prouty	P.G.
Theta Chi	A. E. Gorman	1916
Lambda Chi Alpha	R. W. T. Ricker	1916

The 1916 Interfraternity Council has the distinction of being the first council of this nature at Tech. Several times in the past endeavors have been made to form such a body among the fraternities, but in previous years they have failed.

The organization of the present Council and acceptance of the Constitution by the fraternities was completed early in the fall of 1915, and since that time the Council has been active in its endeavors to bring the fraternities into a closer relationship, establish a better understanding among them and among the student body, and to spare no pains to make the fraternities the great service to Tech men that they can become.

The membership of the Council consists of two members of the instructing force, nominated by the Council and approved by the Faculty, and one delegate from each fraternity.

The Council expects to be able to accomplish much in the line of scholarship improvement among the fraternities, foster athletic relations between them, and establish uniform pledging agreements, etc., as well as settle any disputes between fraternities that may arise. Indirectly, the Council will be the means of bringing about a closer social relationship among Tech men, and be another step toward making them better acquainted with each other.



INTERFRATERNITY COUNCIL

Francis Ricker Gorman Whiting

Beach Prouty Prof. Smith Dr. Bullard Gifford



TECH NEWS STAFF

C. Hubbard, Bates, Bragdon, Firth, Libbey, Pomeroy, Crane, Darling, Kyes, Prince, Cushman

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NEWS PHONES—Editorial, Park 2278 Business Manager, Park 1050 Subscription Manager, Park 2278 —NEWS PHONES

TECH NEWS

VOL. 7 WORCESTER, MASS., JUNE 10, 1916 NO. 33

A HISTORY OF THE INSTITUTE

By LEVI L. CONANT, Ph. D.

Professor of Mathematics at the Institute from 1891 to the present time

The Worcester Polytechnic Institute as it exists today, represents a half-century's growth from beginnings of the most modest kind. The statement is familiar to all its friends that the Institute was founded in 1865 by John Boynton, of Templeton, Mass.; but comparatively few are familiar with the circumstances attending its actual beginning and the first

Impressive Exercises in Mechanics Hall

Excellent Speaking Makes Yesterday Morning Meeting a Success

Before a capacity audience of 1,930 persons, Tech formally commemorated the Fiftieth Anniversary of her founding in Mechanics Hall yesterday morning. It was a great disappointment to learn that at the last moment General Goethals, who was on the program as one of the

Many Delegates Present

Imposing List of Prominent Men Here for Celebration.

During the past week Tech has entertained guests from colleges in every part of the country. Even as far as Hawaii, a delegate was sent in the person of Prof F T Dillingham, an old Tech man. Nothing can attest the importance of our semi-centennial more than the fact of this large list of delegates who have been present

A Great Success

Anniversary Program is Testimonial of Tech's Standing

In every respect the Commencement and Anniversary program this week has been a tremendous success. The weather during the early part of the week was unfavorable, but Tuesday noon the clouds started to clear away and the weather yesterday was perfect.

The academic procession yesterday

Students Favor New System

Gym Fee and Blanket Tax to Support Activities

A step which has been considered several times in past years was taken last week when the proposal to charge a fee of fifteen dollars to each student for gymnasium fee and blanket tax was put before the students. In past years the discussion

Alumni Field Dedicated

Gates Presented to School

Professor Coombs Remembered

A rainy morning forecast a dull dedication ceremony for the formal presentation of Alumni Field and the Class of '87 gates, Tuesday. Just before two, however, the clouds broke; and the sun came out to beam most cordially upon the first public portion of Tech's fiftieth anniversary.

Delegates, faculty, alumni, and students gathered at Boynton Hall; and marshaled

Wilson Unable to Come

Complications in War Troubles Cause Change of Plans

It will be a matter of regret to all that President Wilson has found it impossible to attend Tech's Fiftieth Anniversary. For a time it was hoped that the weight of public responsibility would lighten sufficiently to allow the President to make a flying visit to Worcester. How-

Total is Swelled

Professor Butterfield and Mr. Crandon Return with $5,000 More

Last Wednesday noon Prof. A. D. Butterfield returned from his last trip of the summer campaign to take up his teaching duties once more. His final sally before the opening o school covered north-

"Holy Cross Next"

Season to Close Thursday with Purple as Rivals

To close her most successful football season of recent years, Tech will invade Fitton Field Thursday morning with a team and a student body whose hopes of defeating or tying the Purple are running high. The contest this year prom-

Tau Beta Pi Elections

The following have recently been elect-

NEW ATHLETIC COMMITTEE CHOSEN

Dr. Long to be Chairman

PROF. BUTTERFIELD WILL SERVE

In President Hollis' announcement of the faculty committees for the ensuing year, the complete revision of the Athletic Committee stands out as the all-important portion. The members of this committee

Mrs. Hollis to Receive

Invitation Issued to New Students

INFORMAL AFFAIR AT PRESIDENT'S HOME

The Freshmen and other students new to the Institute are invited to meet Mr. and Mrs. Hollis at 11 Boynton Street on Sunday after-

Major-General Wood Speaks

E. E. Lecture Hall Entirely Filled

Early morning mass meetings are not common at Worcester Tech or any other institution of learning which does not have compulsory chapel but that held by the three

The Raymond Robins Meetings

The series of meetings lead by Mr Raymond Robins are over, but they will

Swimming Pool is Assured

Check for $3000 Will Start It; Remainder Guaranteed

Professor Butterfield's announcement last Thursday evening that the early completion of the pool in the new gymnasium was already assured met with great favor among the students. The facilities for swimming seem to be one of the most attractive of the new gymnasium's features, and Tech men were glad to know

Rifle Club Opens Season

Election of Officers Tomorrow

SUCCESSFUL SEASON EXPECTED

The rifle club plans to start active work for the year very soon. The club will be reorganized this week

Athletic Managerships

Directors Propose to Lengthen Time of Competition

A change in the policy regarding assistant managerships of athletic teams has

Seventeen Football Letters

Athletic Council Holds Long Session

In a lengthy meeting last week Monday evening the athletic council discussed many matters relating to Tech athletics. For three and a half hours football, baseball, and track were talked over, together with several topics of general import. Football letters were awarded, a manager

Successful Football Banquet

Rev. Foster, Dr. Long, and Mr. Brown Contribute to Make First Attempt Memorable

Attended by a small enthusiastic body of supporters, the initial attempt at a football banquet last Thursday evening went on record as a meeting beyond criticism. Except for the limited attendance, there was no particular in which the banquet might have been improved, and even the small attendance assured a concentrated, "gingery" enthusiasm which might have been lacking in a larger, more re-

TECH NEWS STAFF ELECTIONS

The first annual election of the TECH NEWS staff under the new constitution was held last Wednesday. Under this new constitution the election is held in April this year and in February hereafter. Changes have also been made in the titles of the editors. The following men were elected:—Editor-in-chief, Clinton S. Darling '17; Advisory Editor, Everett L. Bragdon '16; Managing Editor, C. T. Hubbard, '16; Associate Editors, Harry S. Cushman '17, Glendon M. Pomeroy '17, and John F. Kyes, Jr. '18; News Editors, Robert K. Chandler '16, Edward M. Bates '17, and Norman C. Firth '18. In the Business Department Valentine B. Libbey '16 was chosen Business Manager; Lester W. Kimball '17, Advertising Manager; and Robert K Prince '17, Subscription Manager. The following men were then elected officers of the association for the next year:—President, Everett L. Bragdon '16; Vice-President, Clinton S. Darling '17; Treasurer, Valentine B. Libbey '16, *ex-officio*; Secretary, John F. Kyes, Jr., '18.

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JOURNAL BOARD

Luther Cleveland Pomeroy Dr. Haynes Merritt C. Burgess Turner

The Journal of the Worcester Polytechnic Institute

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Assistant Editors

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BENJAMIN LUTHER, '18

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PROF. GEORGE H. HAYNES

Associate Editors

PROF. C. M. ALLEN

PROF. C. D. KNIGHT

MR. H. K. CUMMINGS

Business Manager

CARL H. BURGESS, '16

Assistant Business Managers

RALPH N. S. MERRITT, '17

HARRISON I. TURNER, '18

YMCA



Secretary Pierrell

The student branch of the Young Men's Christian Association is the oldest student organization of any kind on the Hill. In 1891 it was formally organized as a branch of the national movement. Ten years later funds were raised to furnish the room and office now occupied in the Mechanical Engineering Building. Since 1911, through the help of interested alumni, a General Secretary has been employed. The object of the association is to promote Christian fellowship and Christian work among students.

During the school year of 1915-16, the energy of the association has been largely devoted to preparation for the series of addresses given by Raymond Robins. The visit of a man of this type was an event long hoped for by those interested in the Institute. The results surpassed all expectations. Mr. Robins' visit resulted in a deeper significance of Christian service to all who heard him.

The year opened well, with a good delegation at Northfield,—about a score. Dr. Hollis was able to be present for a few days. The conference was saddened by the death by drowning of Shan-poa Ma, '18, who was registered at Tech as an Electrical Engineer.

In the fall the Freshman reception was held out of doors for the first time. The lawn in front of Boynton Hall was lighted with decorative colored lights. This innovation was voted a complete success by all who attended.

Two courses in voluntary study were arranged for this year: one in Bible Study, in the fall, and the other in Social Study, in the early spring. About three hundred men enrolled in the twenty Bible Study groups. The Social Study group had a total membership of one hundred fifty in eleven groups. The Bible Study groups were held for the most part in the churches. As a result, the students have had a much closer connection with Worcester churches than has previously been the case.

The Industrial Service work among the foreigners in Worcester has been limited only by the number of classes that could be started. So many Tech men wished to be used in this kind of work that there was room for less than half of them. Men of five nationalities have been taught English and Civics and have thus been assisted in preparing themselves for naturalization.



Y. M. C. A. CABINET

Because of the lack of interest in the Tech Mixers, but one was held this year. At this one the committee was fortunate in securing Prof. Lomax, who has for some time studied American cowboy ballads. He gave his audience a most pleasant evening.

The Handbook, or "Tech Bible," was published as usual this year and a copy given to each student. The Y. M. C. A. calendar came out in an attractive form with several special features. This calendar is sought for as a solution of the Christmas gift problem.

More men have worked on committees and in the various departments than ever before. The spirit of service in which these men have given their time and energy is bound to have its effect upon the man and upon the institution, and in this way alone the association is doing much to develop the character of the school's graduates.



At Northfield

1916 · AFTERMATH · 1916



"THE CUP AND THE COP"

"The Cup and the Cop"



The sixth annual Tech Show was staged at Tuckerman Hall on Thursday and Friday evenings, March 23rd and 24th. The play, which was called "The Cup and the Cop," was the work of Winsor Davis, '16, and was the third Tech Show which he had written during his four years on the "Hill."

The play itself was of a different character from the two preceding ones. "The Cup and the Cop" portrayed the torturous journeying of a stolen cup coupled with the presence of a multiplicity of "Bills." Just as the members of Pi Epsilon Lodge were on the eve of a houseparty with the consequent arrival of the fair sex, a $200 gold loving cup arrived out of nowhere at the same time that Craig Kelly, a burlesque detective, reaches the Lodge. The detective had seen a man enter with the cup and he made clear his intention of staying within the house until the cup and the man who stole it were found. As can readily be seen, the presence of a detective in the fraternity house at the time of a houseparty called for a considerable amount of explanation to the guests and chaperones. These were cleverly given.

After its sudden appearance in many places, among them the wastebasket and a suit case, it was given to Skibo, the colored servant, who had it in his possession when searched by the police, and consequently spent the night at the police station, from which place he was rescued the next morning.

That same evening the dance took place, and during its progress many humorous situations occurred. Horace Wilde Van Riper, a studious student, cleverly played by Bird, '17, was placed in a sad predicament in the loss of his shoes, and his serious attempts to explain his strange behavior because of the loss brought down the house.

In the end, the usual lucid explanations were in order and everyone lived happily ever after; just as it should have been.

The whole cast, which was selected and coached by Mr. Fred Carroll, was up to its usual state of excellence, and their execution of the play showed the results of stiff

work by all. Bird, '17, and Sargent, '18, held the principal "man" parts, and to them was due a large part of the "pep" in the show. Nierendorf, '18, as the detective, and Skibo, the colored servant, as played by Putnam, took well the rôles upon which much of the success of the play depended. Luce, '19, as the leading "lady," and "Bill" Sessions, '17, as Lula Luey, were able in their parts to make the audience forget that they weren't used to the frills and furbelows they were wearing. Spaulding, '16, in his usual part of an elderly lady, carried his impersonation to perfection.

The foregoing is but a brief mention of a few of the characters. But for the space, which is limited, an account of every member of the cast would be given. Suffice it to say, however, that each man did his share well, and that the sixth annual Show was so complete a success is due, in a great part, to them alone.



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Dramatic Association

Officers

PRESIDENT, HERMAN F. SAFFORD

VICE-PRESIDENT, OSCAR A. NIERENDORF

SECRETARY, WILLIAM W. HALL, JR.

TREASURER, ROLAND H. TAYLOR

Tech Show Officials

GENERAL MANAGER
JOHN R. WHEELER

BUSINESS MANAGER
ROLAND H. TAYLOR

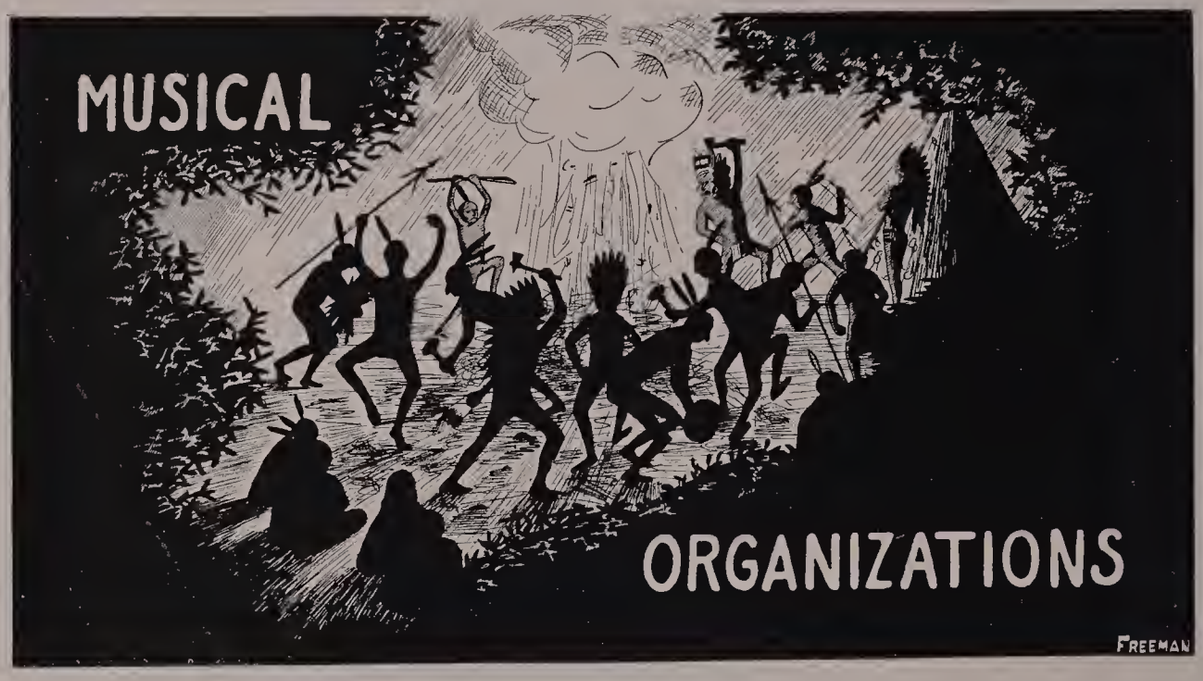
ASSISTANTS
RUSSELL KEITH
WILLIAM S. TITCOMB

ADVERTISING MANAGER
NORMAN C. FIRTH

ASSISTANTS
HAROLD H. LOCKEY
JUDAH H. HUMPHREY

STAGE MANAGER
HARRISON I. TURNER

ASSISTANTS
EDWARD I. BURLEIGH
THOMAS H. EWING



The past year has been most prosperous, both socially and financially, for the Musical Association. The members have shown the right spirit in attending rehearsals and the management has secured more and better concerts than ever before.

The Glee Club, under the direction of Mr. V. M. F. Tallman, and the leadership of H. L. Davis, '16, has improved wonderfully, while the Orchestra, under the leadership of H. G. Saunders, '16, and the Mandolin Club, under the leadership of W. H. Colburn, '16, have kept up their usual good work.

The itinerary of the clubs included concerts in most of the surrounding towns and a two-days' trip to Templeton and Athol. The Tech-Clark Concert was also a well-patronized event again this year. The Orchestra played at the Tech Show as usual, and it also furnished music for dancing at the Junior Prom. The Quartet made trips to Boston and Charlton, besides the trips with the Glee Club.

ITINERARY

Piedmont Church Men's Club	Nov. 18
Fall Concert in E. E. Lab.	Dec. 8
West Boylston	Jan. 7
Grafton	Jan. 25

Pleasant Street Baptist Church	Jan. 27
Sterling	Jan. 27
Tech Night at Poli's	Feb. 14
Templeton	Mar. 3
Athol	Mar. 4
Tech-Clark Concert	Mar. 7
Odd Fellows' Concert	Mar. 15
South Unitarian Church	Mar. 17
Piedmont Church Y. P. S. C. E.	April 25
Framingham	April 28
Odd Fellows' Concert	May 1
Southbridge	May 12

ORGANIZATION

President, E. H. Francis, '16

Vice-President, H. G. Saunders, '16

Secretary, A. A. Smith, '17

Treasurer, W. H. Colburn, '16

General Manager, H. M. Toombs, '16

GLEE CLUB

V. M. F. Tallman, Director — H. L. Davis, '16, Leader

C. W. Kennedy, '17, Manager — R. L. Tomblen, '16, Pianist

First Tenors	*Second Tenors*	*First Bass*	*Second Bass*
Cole, '19	Colburn, '16	Burgess, '16	Abbott, '18
Gardner, '17	Huggins, '18	Hall, '18	Davis, '16
Kennedy, '17	Leventhal, '18	Matte, '17	Child, '18
Copeland, '19	Luce, '19	Padgett, '17	Heywood, '19
Nierendorf, '18	Whitney, '19	Parks, '17	Magoun, '18
	Lloyd, '19	Warner, '17	Mirick, '19
		Sessions, '17	Knowlton, '18
		Sjostrum, '19	
		Wright, '19	

QUARTET

First Tenor	*Second Tenor*	*First Bass*	*Second Bass*
V. M. F. Tallman	Horace Trull	S. A. Brooks	L. D. Wood

ORCHESTRA

H. G. Saunders, '16, Leader — Karcher, '17, Manager

First Violins

Saunders, '16
Mossberg, '18
Pettine, '19

Second Violins

Wilkie, '19
Waddell, '18

Piano

Harcus, '19

Saxophone

Gay, '18

Clarinet

Woodman, '19

Cornets

Lawrence, '17
Davis, '16

Drums

Toombs, '16

Trombone

Karcher

MANDOLIN CLUB

W. H. Colburn, Leader

First Mandolins

Colburn, '16
Reid, '19
Pomeroy, '17

Second Mandolins

Chace, '19
Spoffard, '19
Williams, '19

Mando-Cello

Sears, '19

Guitar

Scott, '16

Pianist

Tomblen, '16

1916 · AFTERMATH · 1916





ORCHESTRA



MANDOLIN CLUB



QUARTET

Tallman Trull Brooks Wood



Glee Club at Gardner



President, WARREN B. BURGESS, '16 — Secretary, HARTLEY C. HUMPHREY, '17
Vice-President, WELLEN H. COLBURN, '16 — Treasurer, ALLAN D. MacKERROW, '17

Honorary Members

PROF. HAROLD B. SMITH
PROF. A. WILMER DUFF
ASSISTANT PROF. CLARENCE A. PIERCE

Active Members

Charles C. Alvord, '18
Edwin W. Bemis, '19
Myron D. Chace, '19
Ivan S. Coggeshall, '18
Howard P. Crane, '18
Francis B. Greeley, '19
Roger M. Hinckley, '19
Charles Hollerith, '17
Leroy R. Jewett, '18
Richard S. Leonard, '19
Eldridge H. Lloyd, '19
Elmer T. Mitchell, '17
Robert A. Radom, '19
Maurice W. Richardson, '18
Norman L. Towle, '17
John A. C. Warner, '17
Alfred M. Whittemore, '19

The W. P. I. Wireless Association was founded in the spring of 1909, through the efforts of O. B. Jacobs, '10. From that time on, the aim has been the development of a complete transmitting and receiving set, worthy of a technical school. At first, this was impossible on account of lack of funds.

In the fall of 1913, the E. E. Department was induced to assist the Association. After careful consideration a 2 Kw.—500 cycle alternator, with a 12,000 volt transformer, was ordered, and a motor provided for driving the generator. The set was moved into new quarters, and under the guidance of Dr. Pierce, it has been gradually developed. A complete new receiving set has been provided, and a liberal station license secured. Official call letters are 1 Y K. The transmitting apparatus has been improved by the addition of a new oscillation transformer, and has been operated with great success.



Towle Richardson Lloyd Chase Greely Leonard
Humphrey Colburn Burgess McKerrow Warner

1916 · AFTERMATH · 1916



FRATERNITIES





PHI GAMMA DELTA


ΦΙΛΟΤΗΣ
ΔΥΝΑΣΤΕΙΑ
ΓΛΥΚΥΤΑΤΗ



Phi Gamma Delta

PI IOTA CHAPTER

Established November 20th, 1891

Active Members

1916

Harold A. Cleveland
Winsor R. Davis
Everett H. Francis
Raymond L. Spaulding
C. LeRoy Storms
Harold M. Toombs

1917

Clifford W. Kennedy
Russell H. Callahan
John R. Wheeler
C. Albert Willard
Thornton R. Stenberg

1918

John O. Archibald
Freeman P. Butler
William W. Hall
Newell Huggins
Frederick H. Magoun
Howard C. Sargent
Albert T. Sibley
Roland H. Taylor
Charles L. Waddell

1919

Stuart W. Briggs
H. Leonard Brooks
Donald T. Canfield
John W. Coghlin
H. Stanley Hunting
Russell Keith
Anton L. Knipping, Jr.
Harold H. Lockey
Richard S. Morse
H. Earl Munz
Robert C. Sessions
Raymond B. Sjostrom
Fred L. Sprague
Raymond E. Taylor



SIGMA ALPHA EPSILON


ΣΙΓΜΑ
ΑΛΦΑ
ΕΨΙΛΟΝ



Sigma Alpha Epsilon

MASSACHUSETTS DELTA CHAPTER

Established March 10, 1894

1916

David K. Beach
Leslie J. Chaffee
Harold W. Howarth
John D. McIver
Alvin L. Sherwood
Sidney T. Swallow
Donald H. C. Tulloch
James C. Walker
Prescott H. Walker

1917

LeRoy W. Bond
Everett F. King
William J. O'Neill
Frank P. Swallow
W. Conrad Thurston
Allan D. Wassall

1918

Byran D. Barker
Frank H. Brackett
Roland D. Doane
Edward J. Fitzmaurice
Warren Hayford
Floyd D. McCutcheon
James A. McDonald
Iver G. Schmidt
John D. Storrs
Ralph S. Ward
O. C. Walker
Fred E. Wood

1919

Everett C. Bryant
Roger B. Chaffee
Daniel L. Clifford
James B. Robertson
Augustin C. Titus



DELTA TAU


ΔT



Delta Tau

Active Members

1914

Albert B. R. Prouty—Graduate Student

1916

George Arthur Estabrook
Hollon Lionel Davis
Walton Bremner Scott
Warren Horton Pike

1917

Harry Stanton Cushman
Richard Beaman Davidson
Wentworth Prentice Doolittle
Ralph Stott Farnum
Robert Champney Hanckel
Philip Carleton Mirick
Cleon Arthur Perkins
Rupert Cole Pomeroy
Clarence Boynton Tilton
Leon Herbert Powers
Philip Cummings Pray
Winfield Mills Putnam
Alfred Eugene Robinson

1918

Howard Partridge Crane
Russell Walker Hirst
Francis Newman Luce
Chester Albert Alexander Peterson
Melcher Gustave Werme
Winfred Durfee Wilkinson

1919

Merle Chandler Cowden
Conant Lamson Starr



ALPHA TAU OMEGA



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ELLIOTT N. PHILA



Alpha Tau Omega

MASSACHUSETTS GAMMA SIGMA CHAPTER

Established November 27, 1906

Graduate Students

Merton Luther Haselton
Edward Russell Nary
Selden Thornton Williams
Robert Lucius Tomblen

1916

Leon Winfield Dunbar
Thomas Webster Farnsworth
Frank Gardner Gifford
Cedric Andrew Stone
Edward Allen Varney
William Spaulding Warner

1917

Arthur Crines Bird
Fred Burch Carlisle
Myrton Harris Cutler
Clinton Stowell Darling
Kirke Brooks Lawton
Glendon Miller Pomeroy
Laurence Dresser Wood
Robert Knott Prince
William Earle Shumway
Moses Hay Teaze

1918

Richard Mellen Daniels
Norman Charles Firth
Frank Joseph Foley
Page Smith Haselton
Franklin Theodore Holmes
William Francis Kennedy
Norman Pomeroy Knowlton
Castle A. Moore
Iver Oscar Mossberg

1919

Donald Bruce Clark
Raymond Benjamin Heath
George Henry Heywood
Judah Hathaway Humphrey
Henry Bescher Moelter
Ralph Adams Prince
Edwin Hubbard Root
Charles Lorenzo Woodman



THETA CHI


18
56
Θῆτα Xi



Chapter House, 1 Lancaster Terrace

Theta Chi

EPSILON CHAPTER

Established 1909

Active Members

1916

Horace F. Banan
Everett L. Bragdon
Eric H. Fors
Arthur E. Gorman
Wendell P. Morrison
Harold G. Saunders

1917

Alfred C. Fenn, Jr.
Clyde T. Hubbard
Donald B. Maynard
Peter R. Knapp
Herman F. Safford
Russell H. Smith

1918

Frederick W. Hubbard
Leroy R. Jewett
Richard C. Lewis
Raymond Newcomb
Ernest W. Whitlock
John H. Reavey
Maurice W. Richardson

1919

Sidney M. Atkinson
Stanley B. Bragdon
Eric Ericson
W. Griffin
Wilmore Harcus
Harry C. Merritt
George R. Rich
Fred A. Terwiliger
Hobart A. Whitney



LAMBDA CHI ALPHA



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ENGD BY ELLIOTT-FH LA



Lambda Chi Alpha

PI ZETA CHAPTER

Honorary Member

James C. Davis

1916

Clinton E. Brown
Herbert N. Eaton
Harold C. Hickock
Earle C. Pierce
R. W. T. Ricker
Clifford W. Sanderson

1917

Hedges S. Freeman
Elmer T. Mitchell
Charles A. Thrasher

1918

George D. Chandler
George W. Emerson
David M. Gaskill
Heyward E. Lawton
Henry L. Lemay
Hoxsie W. Lillibridge
Ray Powers
Raymond P. Trott

1919

Mark F. Cosgrove
Roger M. Grimwade
Robert E. Haycock
Allen D. Hammond



PHI SIGMA KAPPA



Phi Sigma Kappa

EPSILON DEUTERON CHAPTER

Established June, 1915

Faculty Members

Alexander W. Duff

John A. Spaulding

1916

William H. Knowles
Valentine B. Libbey
Albert E. Luke

Joel L. Manson
Philip P. Murdick
Ellery E. Royal
Richard M. Thackeray

Harris E. Whiting
David Wyman
Richard W. Young

1917

Edward M. Bates
Maxton Flint
Alfred W. Francis

Leland A. Gardner
Everett B. Janvrin
Edgar R. Jones

Roger C. Lawrence
Richard D. Lambert

1918

Oscar A. Nierendorf

Harrison I. Turner

Edgar G. Woodward

1919

James E. Arnold
Edward I. Burleigh
Myron D. Chace

Dana D. Goodwin
Henry F. Hammer
Samuel P. Jones
Elbridge H. Lloyd

Frederick Pexton
Lawrence G. Ropes
Kenneth C. Russell



THE COSMOPOLITAN CLUB



The Cosmopolitan Club

WORCESTER TECH CHAPTER OF THE ASSOCIATION OF COSMOPOLITAN CLUBS

OFFICERS

Max W. Tucker—President
Dick Wong—Vice-President
W. Bartlett Jones—Corresponding Secretary
Simon Collier—Recording Secretary
Harold S. White, Treasurer

Honorary Member, Dr. Levi Leonard Conant

Faculty

Frederick Bonnet, Jr.
Zelotes Wood Coombs
A. Wilmer Duff
Arthur W. Ewell
John Austin Spaulding
Walter Louis Jennings
Orie W. Long

Graduate Students

Douglas F. Miner
Kai Yan Mok
William Ward Spratt

Active Members

1916

Wellen H. Colburn
Simon Collier
W. Bartlett Jones
Joaquim dos Reis Junqueira
Roy Herman Kienle
Max W. Tucker

1917

Albert Lloyd Ball
Wai Fung
Andrew Birger Holmstrom
Earl H. Karcher
Dick Wong
Arlington A. Smith
Harold Steinmetz White

1918

James Apostolou
Myrick Crane
Edmond Eugene Moore, Jr.
Russell Walker Hirst

1919

Arthur K. Ferry
Howard A. McConville
King Lau Yen
Henry J. E. Reid



TAU BETA PI



Tau Beta Pi

ALPHA CHAPTER OF MASSACHUSETTS

Active Members

Ira N. Hollis
Albert S. Richey

1887
Joseph O. Phelon

1893
Arthur D. Butterfield

1894
Charles M. Allen

1903
Carl D. Knight

1904
Francis J. Adams

1910
Herbert K. Cummings

1913
George A. Hill
Donald M. Russell

1914
Albert S. Crandon
William W. Spratt

1915
Douglas F. Miner
Charles B. Hurd
Clyde C. Whipple

1916
David K. Beach
James A. Blair
Wellen H. Colburn
Herbert N. Eaton
Frank G. Gifford
Roland D. Horne
Clyde T. Hubbard
Harold A. Maxfield
Arthur Nutt
Harold Nutt
Walton B. Scott
Henry S. Sturtevant
C. LeRoy Storms
Sidney T. Swallow
Richard M. Thackeray
Richard W. Young
Prescott H. Walker
Aurelio E. Zambarano

1917
Alfred Bredenberg, Jr.
Alfred W. Francis
Hedges S. Freeman
Walter H. Gifford
Herman Hollerith, Jr.
Roger C. Lawrence
Edgar N. Pike
Carl B. Reed
Francis P. Swallow
Moses H. Teaze
Norman L. Towle
Samuel H. Thompson
John A. C. Warner



THE SKULL

Standing: Young, Gorman, Banan, Dunbar, McIver.
Seated: Cleveland, Ricker, Stone, Bragdon, Davis.



The Skull

SENIOR HONORARY SOCIETY

Founded 1911

The Skull is an honorary society electing to its membership each year the ten Juniors who, in their three years at Tech, have been most prominent in its activities, athletic and social.

1916

Horace F. Banan
Everett L. Bragdon
Harold A. Cleveland
Winsor R. Davis
Leon W. Dunbar
Arthur E. Gorman
Raymond W. T. Ricker
William E. Shumway
Cedric A. Stone
John D. MacIver
Richard W. Young

1917

Harry S. Cushman
Clinton S. Darling
William F. Duffy
Everett F. King
Glendon M. Pomeroy
Herman F. Safford
John R. Wheeler
Russell H. Smith
Thorton R. Stenberg
Moses H. Teaze

Sigma Xi

WORCESTER CHAPTER

1915-1916

Faculty

Prof. C. M. Allen
Prof. W. W. Bird
Prof. F. Bonnet, Jr.
Prof. A. D. Butterfield
Prof. D. F. Calhane
Prof. L. L. Conant
Prof. J. C. Davis
Prof. A. W. Duff
Prof. A. W. Ewell
Prof. H. P. Fairfield
Prof. A. W. French
Prof. D. L. Gallup
Prof. G. H. Haynes
Prof. I. N. Hollis
Prof. H. C. Ives
Prof. W. L. Jennings
Prof. R. C. Sweetser
Prof. R. K. Morley
Prof. J. H. Nelson
Prof. J. O. Phelon
Prof. A. S. Richey
Prof. C. A. Pierce
Prof. C. A. Reed
Prof. A. L. Smith
Prof. H. B. Smith

Instructors

P. W. Brouwers
J. A. Bullard
A. S. Crandon
F. Daniels
C. D. Haigis
G. A. Hill
C. B. Hurd
M. L. Masius
C. C. Whipple
S. J. Plimpton
H. R. Power
F. W. Roys
A. St. John

Graduate Students

M. L. Hazelton, '15
D. F. Miner, '15
R. D. Hawkins, '15
W. W. Spratt, '14

Class of 1916

J. A. Blair
C. Burgess
J. P. Comstock
H. Eaton
R. Kienle
H. E. Maxfield
C. F. Merriam
H. Nutt
W. B. Jones
W. B. Scott
S. T. Swallow
S. T. Williams
R. W. Young


THE SOCIETY OF SIGMA XI
1886



Junior Prom Committee

HERMAN F. SAFFORD, Chairman

EVERETT F. KING

ARTHUR C. BIRD

ALFRED E. ROBINSON

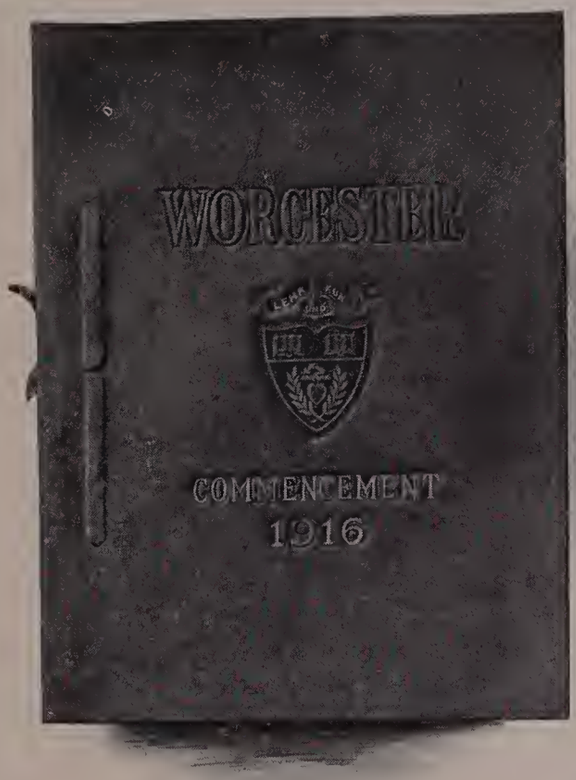
HAINES B. QUIMBY

RALPH G. TAYLOR

CLIFFORD W. KENNEDY

1916 · AFTERMATH · 1916





Commencement Week Program

SUNDAY, JUNE 4

3.15 P. M. Reception at President's home.
4.00 P. M. Baccalaureate Sermon by Rev. Allyn K. Foster at Central Church.

MONDAY, JUNE 5

Clambake at Edgemere.
8.00 P. M. Annual Meeting of Sigma Xi. Speaker, Dr. A. S. Cushman.

TUESDAY, JUNE 6

10.00 A. M. Baseball—Civils-Electrics vs. Mechanics-Chemists.
3.00 P. M. Baseball—W. P. I. vs. New Hampshire State.
8.00 P. M. Senior Banquet at Sterling Inn.

WEDNESDAY, JUNE 7

2.00 P. M. Class Day Exercises.
4.30 P. M. Reception by President and Mrs. Hollis for the members of the graduating class and relatives.

THURSDAY, JUNE 8

10.30 A. M. Graduating exercises in gymnasium. Address by Rear-Admiral Austin M. Knight.
1.30 P. M. Dedication of new gymnasium.
2.00 P. M. Alumni dinner in gymnasium.
8.00 P. M. Senior dance in gymnasium.

As Gleaned from a Senior's "Bible"



Wednesday, Sept. 18—Registered at 10.30 in Assembly Room in Boynton Hall. Sophs have taken a great interest in us and have furnished us with caps (at our expense) so that we'll have no trouble in finding our classmates. Nobody but a blind man could fail to recognize us now. They also posted some rules of action for our convenience. Wonder who painted '16 on them? That was the first thing I saw. This afternoon I invested a small fortune in a library, drawing instruments (including one prize package that they forgot to put a prize in) and some shop tools.

Saturday, Sept. 21—Sophs again showed us a great deal of attention when they "escorted" us to the Y. M. C. A. reception in the E. E. Hall tonight.

Friday, Sept. 27—Went to a church social tonight. Drew a partner that I couldn't shake. She said her name was Marie, but I think it must have been Hilda or Olga. She lived up on Belmont Hill.

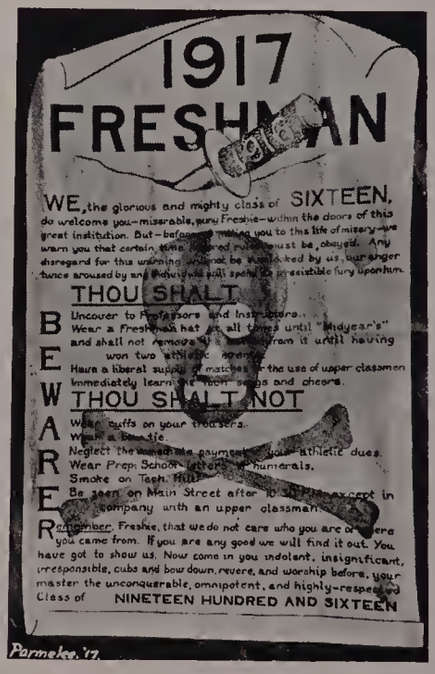
Saturday, Sept. 28—Went down to the Franklin tonight with a Junior. He said it was a quality show. Maybe it was, but I wish I had my quarter back.

Tuesday, Oct. 8—Guess 1916 is some class. Our rope-pull team didn't have any trouble at all pulling the Sophs through the pond. Paraded with rope this afternoon and had a night-shirt parade this evening. How generous the Sophs are! I think they must have given eggs to every person on Main St., and then they gave them to us. Not one of us was overlooked.

Thursday, Oct. 10—We won the first cross-country today, 117-87. "Vic" Hugo had it all to himself.

Tuesday, Oct. 15—Had our pictures taken on E. E. steps. Not a Soph in sight.

Wednesday, Oct. 16—Second X-country today. Freshmen won 98-85. We will be able to get some new hats pretty soon.



1916 • AFTERMATH • 1916

Friday, Oct. 18—Another church social. Got a prize this time. Her name is Mildred and she lives on the West Side, too. Guess I'll take her to the E. E. dance.

Tuesday, Oct. 22—Good-bye to the danger sign. Sophs won the third X-country today, but the Freshmen won the series. I went down to the dollar hat store this afternoon and got a swell new hat. The clerk said it was the one the new Stetson is modeled after.

Friday, Nov. 1—E. E. Dance tonight. I went, but not with Mildred. She was there with a Soph. Wait until I get to be a Soph.

Wednesday, Nov. 6—Had "Chick" for last time in pattern making. I suppose I'll have to spend a quarter and go to the Franklin once a week now that I'll not hear any more of his lectures.

Saturday, Nov. 9—Guess we will trim Holy Cross this year all right. Trimmed Amherst today easy, 14-13. Big bonfire and torchlight parade tonight.

Saturday, Nov. 16—You can't always believe in signs. Holy Cross managed to win today. That is, they won the football game, but the "dispute" over the goat was a draw.

Saturday, Nov. 23—Sophs won the football game, 7-0. We should worry. It was only luck anyway.

Wednesday, Nov. 27—Cut shop this afternoon and went home, so as to be sure and be there for the turkey tomorrow.

Monday, Dec. 2—Back again. Started studying once more, because I got screwed in Trig this morning.

Saturday, Dec. 7—Went down to the Tech Cotillion at "Ma" Day's. Some clever dancers there. Guess I'll have to go regularly.

Saturday, Dec. 21—Now for home and mother, and some studying for mid-years.

Thursday, Jan. 2—Vacation is over and I haven't done any studying. I think I'll find some time to study before exams.

Wednesday, Jan. 15—Exams tomorrow. I've got to study tonight.

Thursday, Jan. 16—Bright and fair. I mean the weather, of course. Everything else is gloom. Almost finished "Coombsie's" English exam this morning.

Friday, Jan. 17—Another exam. Crib was useless.

1916 · AFTERMATH · 1916



CLASS OF 1916 AS FRESHMEN

1916 · AFTERMATH · 1916



CLASS OF 1916 AS SENIORS

Saturday, Jan. 18—Ditto.

Monday, Jan. 20—Same thing. Went home this afternoon. Wonder if they ever give any marks lower than F!

Monday, Jan. 27—Back to Worcester. Got some new books, and also my marks. Only one E. Guess I'll try for T B II.

Saturday, Feb. 15—Saw Marie at "Ma" Day's. I saw her first and tried to dodge her, but "Ma" Day cornered me and "introduced" me to her. I danced with her once and then remembered that I had to go home and study for an exam Monday.

Tuesday, Feb. 25—Tech night at Poli's. Plenty of Tech spirit.

Wednesday, March 5—Helped lay board track today. Spring is coming.

Wednesday, March 19—Just found out that the Soph who took Mildred to the dance was screwed out at mid-years, so I took her to Poli's tonight. She asked me to come over some time. Guess I'll go Friday night.

Friday, March 21—Went over to Mildred's. She makes great fudge. I forgot my doorkey and had to crawl in the pantry window when I got home.

Wednesday, March 26—Tech Banquet tonight. I'm glad I went. I'm going next year if I am still a Tech man.



Saturday, March 29—Home for a week. No books this time because I have an attack of spring fever and can't study.

Monday, April 7—What a short vacation.

Tuesday, April 8—Flag on Boynton Hall was at half-mast today for Walker and Chynoweth, of our class.

Friday, April 11—Tech Show in the Worcester Theatre "Man Proposes." Had the girl from home here for it.

Saturday, April 12—Hit the makeup in Trig today.

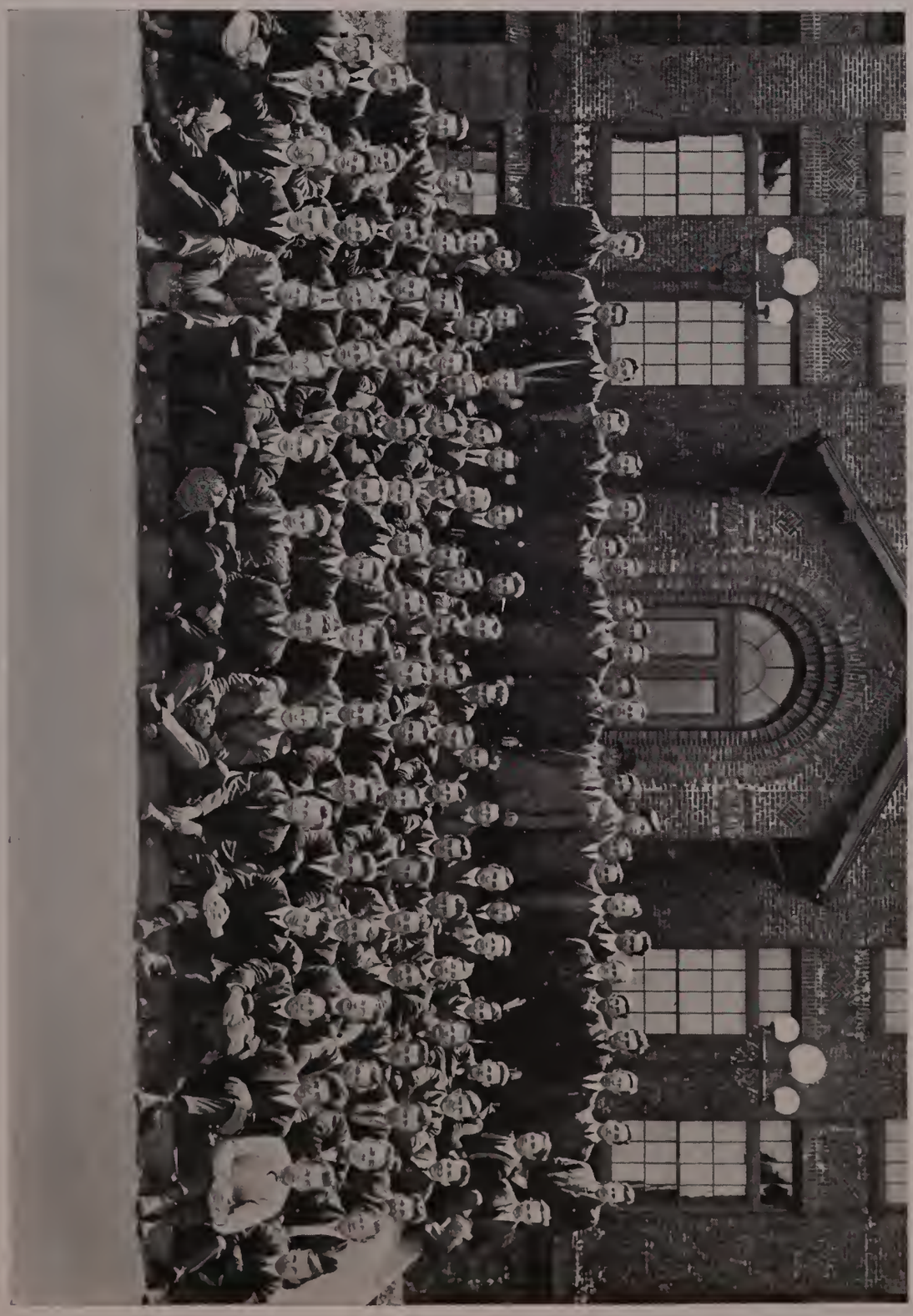
Saturday, April 19—Holiday today. Interclass relay.

Saturday, May 17—Went to the ball game with Mildred. Lost to Norwich 2-1 in eleven innings.

Monday, May 26—More exams.

Thursday, May 29—Good-bye Worcester. I am going to be a Chemist because there is only two weeks summer practice next fall.

1916 · AFTERMATH · 1916



CLASS OF 1916 AS SOPHOMORES

1916 • AFTERMATH • 1916

1913-1914

Tuesday, Sept. 2—Started in on summer practice today. Went down to the lake tonight.

Friday, Sept. 12—Missed a night at the lake because it rained.

Wednesday, Sept. 17—Registered this P. M. Welcomed Freshmen this A. M.

Thursday, Sept. 18—Calc and Physics today. Have been busy enforcing rules on Freshmen.

Friday, Sept. 19—Physics and Calc.

Saturday, Sept. 20—Y. M. C. A. Reception tonight. Pres. Hollis spoke. We gave the Freshmen a good time afterwards.

Sunday, Sept. 21—Went over to Mildred's this evening. She said she was expecting me so she took a nap in the afternoon. I went home early though, because I have Calc and Physics tomorrow.

Friday, Oct. 3—Started in "training" for X-countries today.

Saturday, Oct. 4—Wonder why I feel so lame! Guess I won't go over the Coes Square course tonight.

Thursday, Oct. 19—Sophs won first X-country. I made a place although I had to stop and rest a few minutes at Newton Square. There were twenty-two who entered, but two dropped out.

Friday, Oct. 10—Freshman Reception at "Prexie's." Locked two Freshies in their rooms, but they got out the window.

Monday, Oct. 13—Holiday today to celebrate Columbus Day. I celebrated by studying for that Calc exam coming tomorrow.

Thursday, Oct. 16—Freshies won second X-country and got so swell headed over it that one of them had to be ducked in the 'Stute pond.

Friday, Oct. 17—Jones and Chandler had argument with "Coombsie" today, over the Freshmen, and were expelled.

Saturday, Oct. 18—Class meeting this noon, and we voted to give up hazing in order to get Jones and Chandler back. Soft hearted, eh!

Monday, Oct. 20—Saw Freshie without his cap today, but pretended not to notice it.

Tuesday, Oct. 21—Guess our rope-pull team is there. They fooled everybody when they pulled the Freshies through the pond today. Big parade this afternoon and a pajama party at Poli's tonight.

1916 · AFTERMATH · 1916



CLASS OF 1916 AS JUNIORS



SENIOR SANITARY CIVILS

1916 · AFTERMATH · 1916

Friday, Oct. 24—Have just returned from the mass meeting. I know we are going to beat Holy Cross tomorrow.

Saturday, Oct. 25—Holy Cross game postponed. They're 'fraid of getting mud on their new jerseys.

Thursday, Oct. 30—Freshies won third X-country and the series. Have to humor them a little.



Saturday, Nov. 22—That extra month of practice must have improved the Holy Cross football team, because they won the game today. Tech won the X-country, though.

Monday, Nov. 24—Had to hunt all over Boynton Hall to find the mail box this morning. It has been moved from beside the library door to a place near the bulletin board.

Thursday, Nov. 27—Home for a real dinner.

Sunday, Nov. '30—Arrived in Worcester this P. M. and had dinner at Millie's.

Saturday, Dec. 6—There were some new girls down at "Ma" Day's tonight. One of them was a peach of a dancer. She lives 'way out toward Leicester. I went home with her and we got as far as first names on the way home. Hers is Elizabeth, but she says I can call her Beth because that is shorter.

Friday, Dec. 12—Was going to the movies with Mildred tonight, but took Beth to the Worcester instead. She surely is some queen.

Monday, Dec. 22—Now for a week's vacation.

Monday, Jan. 5—Back again to get ready for exams. Saw the girl once when I was home.

Monday, Jan. 19—Guess I hit the exam today. What a peculiar sensation. Hope I can do it to the rest of them.

Saturday, Jan. 24—They are over. Now for a rest.

Wednesday, Jan. 28—Started a new term today without any makeup hanging over me. My marks were all better than E. I'm glad I'm a Chemist.

Wednesday, Feb. 11—Went to Poli's with Beth and saw Mildred there with some other fellow. I've always been told a blonde is fickle. Now I know it.

Monday, Feb. 23—Holiday. Slept until noon, then got up and wished it was time to go to bed again. No use talking, that last car from Leicester is too late; I have got to catch an earlier one after this. I am losing too much sleep.



SENIOR CIVILS

1916 · AFTERMATH · 1916

Monday, March 9—Lost debate in English today. The other side used some arguments that they hadn't told us about.

Friday, March 27—Tech Show "Lost—A Fortune." Beth said she thought it was simply grand.

Saturday, March 28—Went to the Tech Hop tonight. Swell affair!

Sunday, March 29—Went home for spring recess.

Monday, April 6—Now for the last lap of the year.

Thursday, April 16—Took in my second Tech Banquet tonight. Even better than last year.

Tuesday, May 19—Heard Pierrell, the fellow who is going to take Shedd's place in the Y. M. C. A., speak in E. E. Hall. It won't take him long to get the Tech spirit.

Wednesday, May 27—Exams again!

Wednesday, June 3—Another week of misery over.

Thursday, June 4—Started summer practice today, also evening course in astronomy at the lake.

Tuesday, June 16—Well, I'm half way thru. Went home tonight.

1914-1915

Wednesday, Sept. 16—Wrote another brief biography to be put on file in the office. There were not nearly as many men at registration today as there were two years ago. Wonder how many of us will be left at the final roll-call a year from June! Freshman registration was pretty tame this year. They got their caps, though. There is too much real good in that custom to let it drop with the hazing.

Thursday, Sept. 17—Got my library together and started work. It comes hard to break right in to work after rusting up all summer. I should have taken some makeups to get my hand in.

Monday, Oct. 12—Holiday. Went to Mt. Wachusett. I have been intending to go there ever since "Coombsie" told us about it Freshman year. Didn't see the schoolhouse nor the brook where the fellow fell in.

Friday, Oct. 16—Went to mass meeting for the Holy Cross game.

Saturday, Oct. 16—Game postponed indefinitely. Is this going to become a custom?

Wednesday, Oct. 21—Sophs must have learned a lesson last year, because they won the rope-pull today.

Saturday, Oct. 24—Juniors won track meet.



SENIOR ELECTRICS



SENIOR CHEMISTS

1916 • AFTERMATH • 1916

Thursday, Nov. 5—"Half-way thru" banquet at Sterling this evening. A representative crew was there. Illuminations were fine and frequent. The conductor was lucky to return to his barn with his car orders. Everything else had legs on it.

Friday, Nov. 6—Happy, but with a peach of a hang-over. Lucky I can be half-way-thru only once.



Saturday, Nov. 14—This date will go down in history. The football team dedicated the new field with a victory over Rensselaer (14-0).

Sunday, Nov. 15—Went fussing tonight. I have sadly neglected that line of Tech activities so far this year, and am breaking in slowly.

Wednesday, Nov. 25—Thanksgiving again.

Monday, Nov. 30—What a short vacation.

Saturday, Dec. 5—Went to "Ma" Day's tonight. Guess I'll have to learn to dance all over again. I can't seem to get the new steps. I'll have to take some private lessons from Beth.

Wednesday, Dec. 9—Beth is certainly some teacher. I have hopes of mastering some of those steps before they go out of use. I've found I can learn faster from her with the lights out.

Thursday, Dec. 17—Went skating tonight at Green Hill. Best I ever saw it.

Wednesday, Dec. 23—Went home today to study a little for exams.

Thursday, Dec. 31—Haven't cracked a book yet, but that leaves me a chance for improvement during the new year.

Friday, Jan. 1—Studied a little today, just to start the year right.

Monday, Jan. 4—Where did the time go? These vacations are getting shorter every year.

Wednesday, Jan. 13—They begin tomorrow; guess I'll go out tonight while I am still happy.

Tuesday, Jan. 19—Ah! What a relief! Home again.

Monday, Jan. 25—Now for the new term.

Thursday, Feb. 11—Juniors defeated Sophs in relay. We have two legs on the cup. One more win and it will be ours.

Friday, Feb. 12—Who says the Tech spirit is dying? He should have been at Poli's tonight. It was Tech night.



SENIOR MECHANICS

Wednesday, Feb. 24—Tech Show rehearsals are going on with commendable regularity.

Friday, March 5—"Ma" Day's instructions and Beth's tutoring came in handy at the Tech-Clark dance tonight. I hope the dance will become an established custom.

Friday, March 26—Tech Show, "The House That Jack Built." Great work, "Win"!

Saturday, March 27—First Annual Junior Prom. It takes 1916 to start things. The Prom was a great success and will surely become a regular sequel to the Tech Show. Had my dame from home.

Sunday, March 28—Went home today.

Saturday, April 3—Positively my last appearance at the "pink teas."

Thursday, April 8—Tau Beta Pi elections. I nearly got elected. They took the fellow whose name comes next to mine in the catalogue.

Wednesday, April 14—Tech Banquet. Was there as usual.

Monday, April 19—Patriots' Day. Ground broken for new gym.

Saturday, May 1—Baseball diamond dedicated with a victory (8-7) over Stevens.

Thursday, May 13—Elected AFTERMATH Board and Marshal for Commencement week.

Monday, May 24—They begin again, but I am ready for them this time.

Tuesday, May 25—"Jinny's" Poli. Sci. exam reminded one of Freshman year, and "Coombsie's" English exams. Guess I got by it, though, if my book didn't look too much like a charcoal drawing or a zinc etching.

Saturday, May 29—They are over at last. Guess I'll stay for the Commencement week celebrations.

1915-1916

Monday, Aug. 23—Began summer practice. Not many of the fellows back yet.

Monday, Sept. 6—Went down to the lake today and had a swim. Some hot!

Wednesday, Sept. 15—What is left of the 1916 class returned today and registered for the seventh time. Pres. Hollis gave us a good talk to start us off on our last year.

Thursday, Sept. 16—Started in work as a Senior. I am going to 'tend strictly to business this year so that I will get away with a skin in June.

1916 • AFTERMATH • 1916

Friday, Sept. 17—Too hot to study tonight. Went up to Y. M. C. A. Reception to the Freshmen. It was on the campus in front of Boynton Hall. Much credit is due the committee in charge.

Saturday, Sept. 25—W. P. I. played Connecticut Aggies today. Score, 7-0 in Tech's favor.

Monday, Oct. 4—First X-country today.

Tuesday, Oct. 5—Am beginning to feel the responsibilities of a Senior. Paid AFTERMATH dues today.

Tuesday, Oct. 12—First holiday. Many thanks to Columbus for discovering America at this time of year rather than in the summer.

Thursday, Oct. 14—Sophs follow custom that 1916 set and win rope-pull.

Friday, May 19—E. E. Dance. The Electrics certainly know how to entertain.

Wednesday, Nov. 24—Big mass meeting for tomorrow's game.

Thursday, Nov. 25—Stayed in Worcester this A. M. to see Holy Cross game. Tech put up good fight, but—. Went home this afternoon and got some turkey.

Wednesday, Dec. 8—Musical Association Dance in E. E. Building. A Tech affair that the men should take advantage of.

Saturday, Dec. 11—Tau Beta Pi initiation. Sorry I couldn't be there, but am too busy.

Thursday, Dec. 23—Home for Xmas! How time flies!

Saturday, Jan. 1—Leap year! Must be careful! Started the year right. No makeups.

Monday, Jan. 10—The "midnight oil" begins to burn.

Thursday, Jan. 13—First exam today.

Tuesday, Jan. 18—Tech men lost one of their best friends today, when Mrs. Butterfield died.

Wednesday, Jan. 19—The last exam. Here's hoping. Now for home.

Monday, Jan. 24—Where are all the Civils?

Tuesday, Jan. 25—Musical Association takes trip to North Grafton. All return safely.

Friday, Feb. 11—Had picture taken for AFTERMATH.

Wednesday, Feb. 16—Exercises on Hill suspended this afternoon in honor of G. Henry Whitcomb.

1916 • AFTERMATH • 1916

Friday, Feb. 18—Raymond Robins opened campaign at Tech. Pres. Hollis presided at the meeting.

Monday, Feb. 21—Robins gave his last talk.

Monday, Feb. 28—Tech night at Poli's. Good work, Glee Club.

Tuesday, Feb. 29—Haven't been proposed to yet. Guess I'll survive leap year after all.

Tuesday, March 7—Tech-Clark Dance. Best ever.

Friday, March 24—Sixth Annual Tech Show, "The Cup and the Cop." Coach Carroll appeared and spoke for first and last time. He said that this was probably the last Tech show he would coach. The Dramatic Association will have a hard time getting a man who can fill his shoes.

Saturday, March 25—Junior Prom. Well done, 1917!

Monday, March 27—Last chance to get home before Commencement.

Saturday, April 1—Fooled them today all right. Didn't have to take a makeup.

Monday, April 3—We're off on the last lap.

Friday, April 14—It is about time I began to get results on thesis.

Saturday, May 27—It's all over but the cheering. Took my last exam today.

Thursday, June 1—Got my thesis in today. What a relief!

Thursday, June 8—Commencement.

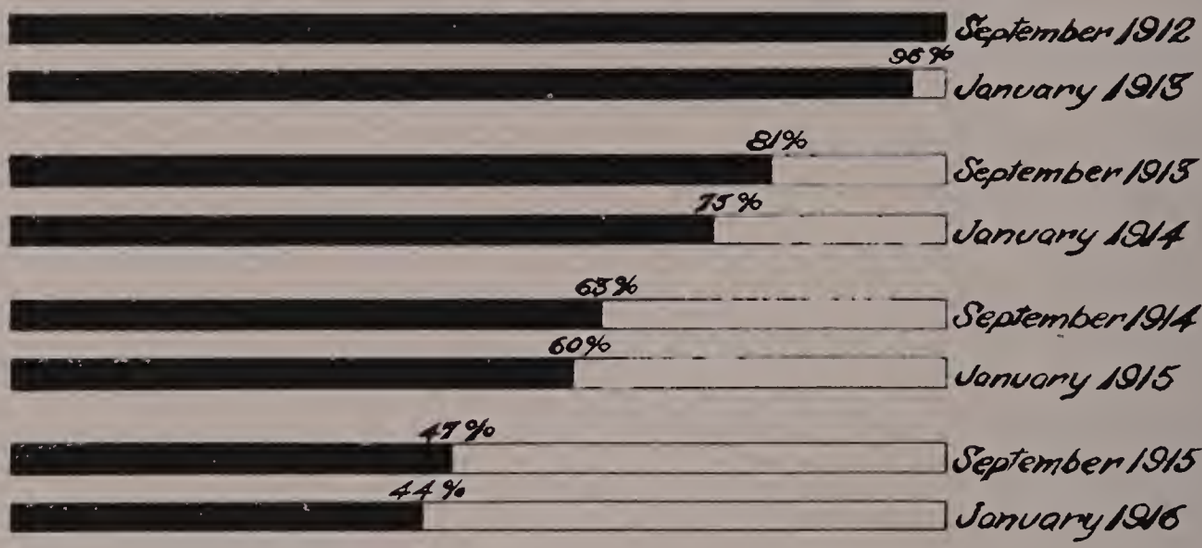
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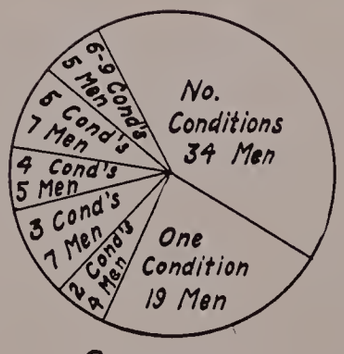


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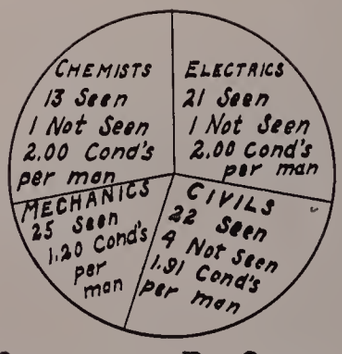
REGISTRATION OF THE CLASS OF 1916

190 MEMBERS, SEPTEMBER 1912

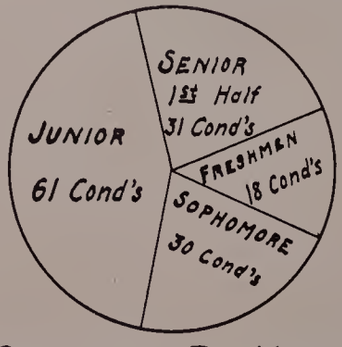




CONDITIONS



CONDITIONS BY COURSES



CONDITIONS BY YEARS

1916 • AFTERMATH • 1916

Original Class of 1916

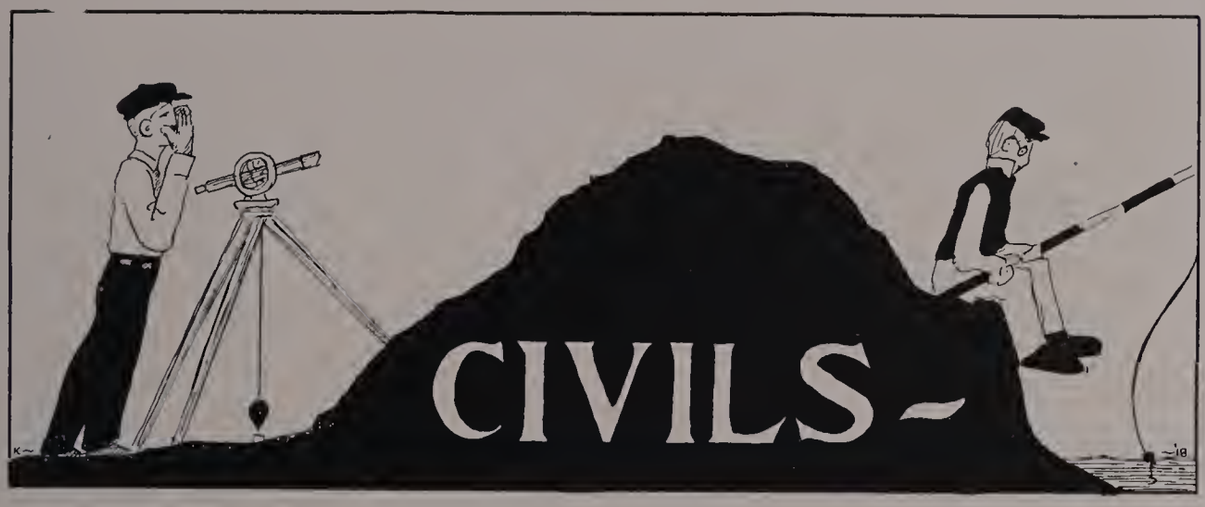
(Graduates in Capitals)

Abercrombie, George H.
Andrews, Robert M.
Arnold, Lincoln R.
Arnold, Samuel E.
Atherton, Stanley G.
Atwater, Allen M.
BANAN, HORACE F.
Bancroft, Henry L.
Barber, Oliver P.
Barker, Edward L.
Bartlett, Robert W.
Batchelder, Robert F.
BEACH, DAVID K.
Becker, Adolphe E.
Becker, William J. Jr.
BERRY, COBURN L.
Bidwell, Harold W.
Bieberbach, George
BJORKMAN, CHARLES A.
Booth, Richard E.
BRAGDON, EVERETT L.
BROOKS, STEPHEN A.
BROWN, CLINTON E.
Brown, William R.
Brownell, Max
BURGESS, CARL H.
BURGESS, WARREN F.
Callahan, Russell H.
Case, Russell E.
CHAFFEE, LESLIE J.
Chamberlin, Frank S.
Chan, Ernest B.
Chandler, Joseph M.
Chandler, Robert K.
Cheever, Allston H.
Cherry, George W.
Chilson, Stanley G.
Chynoweth, Philip A.
CLEVELAND, HAROLD A.
COLBURN, WELLEN H.
COLLIER, SIMON
COMSTOCK, JOHN P.
Cook, Oliver W.
COOKE, PHILIP N.
Craig, George J.
CRAIGHEAD, RICHARD L.
Crane, Norman V.
Davis, Hollon L.
DELANEY, THOMAS J.
Densmore, Eugene W.
Drury, Lawrence G.
DUNBAR, LEON W.
Eaton, Albert H.
ELKINS, LESTER H.
ESTABROOK, GEORGE A.
Farnum, Ralph S.
Fenn, Alfred C., Jr.
FORS, ERIC H.
FRANCIS, EVERETT H.
Frary, Hubert H.
Frazee, Ellsworth A.
French, Harold B.
Frizzell, Clifford N.
Gallier, William D.
Gardner, Elmer H.
Garland, Gordon C.
Garnsey, Fred A.
GIFFORD, FRANK G.
Gilmore, Arthur F.
GORMAN, ARTHUR E.
Griffith, Thomas G.
Hayes, George W.
Hayward, Lawrence H.
HICKOCK, HAROLD C.
Hollister, George S.
HORNE, ROLAND D.
Howard, James A.
Howarth, Harold W.
Hugo, Karl
INGRAHAM, ARTHUR K.
JEALOUS, WILLIAM K.
Jones, Lawrence C.
JONES, WILLIAM B.
JUNQUEIRA, JOAQUIN D. K.
Kelley, Levi M., Jr.
Keyes, Frederick H.
KIENLE, ROY H.
Kloss Theodore E.
KNOWLES, WILLIAM H.
Kreitler, Arthur W.
KRULL, LEONARD M.
Labombarde, Harold S.
Lacouture, Arthur
Ladd, Durant F.
LAMB, ROBERT E.
Leland, William F.
LEONARD, HAROLD C.
LIBBEY, VALENTINE B.
Lord, Herbert
Lubinsky, Frank
LUKE, ALBERT E.
Lyman, Charles E., Jr.
Mann, Harold C.
MANSON, JOEL L.
Marble, Elwood L.
Marsh, George A., Jr.
MAXFIELD, HAROLD A.
Maynard, Donald B.
McCabe, Francis T.
McDuffee, Edward C.
McKerrow, Alan D.
Medbury, Raymond S.
MORRISON, WENDELL P.
Moulton, J. Wendell
MURDICK, PHILIP P.
Murphy, Frank J.
MURPHY, JOSEPH E.
Murray, Philip F.
Nakashian, Luke L.
Noble, Raymond M.
NUTT, ARTHUR
NUTT, HAROLD
Ogren, Ernest G.
Olson, Herbert G.
Page, Raymond H.
PERRIN, PAYSON A.
PETERSON, HARRY G.
PHIPPS, MERLE B.
Pierce, Carl C.
Pike, Everett H.
Pinney, Richard H.
Post, Henry K.
Pratt, Winthrop S.
PUTNAM, AMOS A.
Putnam, Winfield M.
Rabinowitz, Arthur
Rice, Chester G.
RICHARDSON, ALLEN H.
RICKER, RAYMOND W.
Roberts, Charles W.
ROYAL, ELLERY E.
Ruddell, Clarence A.
SANDERSON, CLIFFORD W.
SAUNDERS, HAROLD G.
Schorr, Jesse M.
SCOTT, WALTON B.
Sheehan, Francis E.
Shumway, William E.
Smith, Arlington A.
Smith, Carlton R.
Smith, Marshall O.
Smith, Prescott S.
Smith, Seth G.
Souto, Hippolyto G.
SPAULDING, RAYMOND L.
STONE, CEDRIC A.
STORMS, CHARLES LeR.
Stuart, Chauncey R.
STURTEVANT, HENRY S.
Sutsman, Harold B.
Teaze, Moses H.
THACKERAY, RICHARD M.
Thrasher, Charles A.
Thurston, William C.
Tilton, Clarence B.
Tinker, William R., Jr.
TOOMBS, HAROLD M.
TRUE, WALTER A.
TRULL, HORACE
TUCKER, MAX W.
Tulloch, Donald H. C.
Tuttle, Monroe W.
Upson, Stuart A.
Upton, George H.
VARNEY, EDWARD A.
Walker, Harry T.
WALKER, JAMES C.
WALKER, PRESCOTT H.
WALLSTEN, WALFRED A.
Warner, John A. C.
WARNER, WILLIAM S.
Watson, Earl P.
Weaver, J. Lawrence
Wheaton, Laurence C.
WHITING, HARRIS E.
Wong, Dick
Wood, Laurence D.
WYMAN, DAVID
YOUNG, RICHARD W.
ZAMBARANO, AURELIO E.

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CIVILS SUMMER CAMP

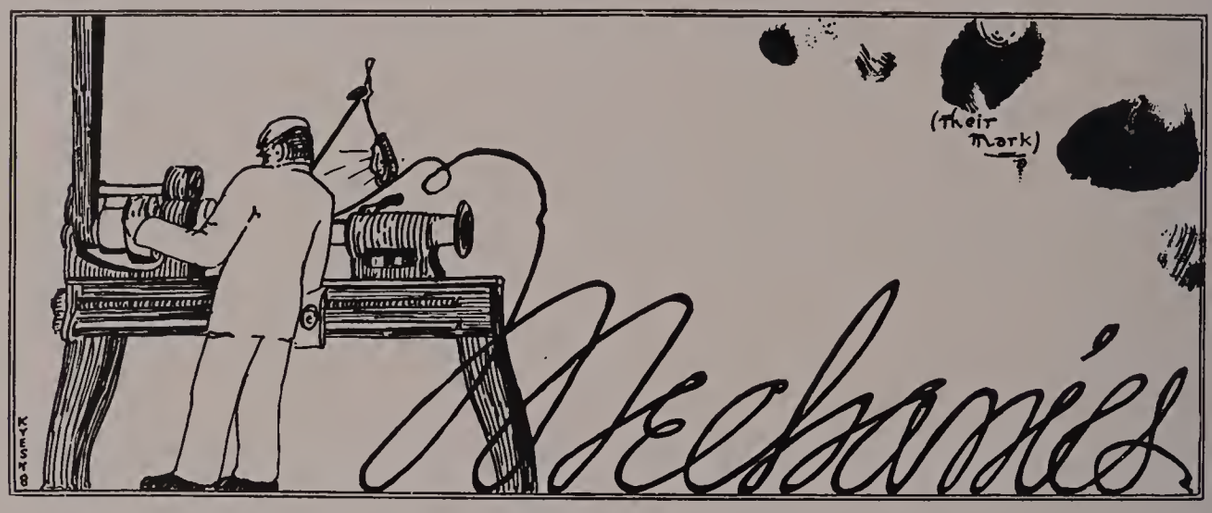


Civil Engineering Society

OFFICERS

President, D. K. Beach, '16
Vice-President, M. H. Teaze, '17
Secretary, Thomas Stewart, Jr., '18
Treasurer, C. S. Darling, '17

It is, in all probability, more true of civil than of any other branch of engineering that a theoretical training is of little value to a man without considerable practical training or experience. Aside from the usual advantages to be derived from membership in any well organized society, the Civil Engineering Society aims to bring to the undergraduate students an appreciation of this fact. In the meetings of the society it is impossible to bring out more than a mere hint of the great mass of practical knowledge which the modern civil engineer must have, but the society does, through its meetings and the speakers whom it is so fortunate in obtaining, impress the student with the importance of a thorough training in theory and practice and the relation of the one to the other. Two of the meetings each year are taken up with discussions by the students, one on practical work with which they have been connected and the other on work which they have done in connection with their theses. The other meetings of the year are taken up with lectures and discussions by prominent men connected with engineering work of one kind or another. Occasional smokers and "eats" lend a social atmosphere to the meetings. When in after years we are reminded of the things we heard and did in the civil meetings, there will always be a longing for the good old days with the Civils at W. P. I.



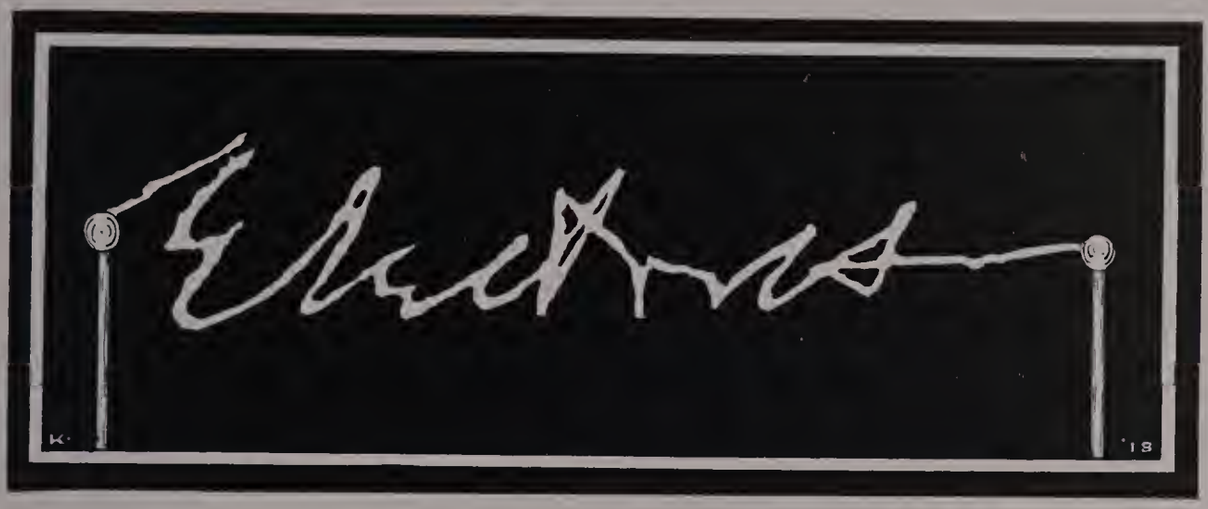
OFFICERS

President, H. Nutt, '16
Vice-President, T. W. Farnsworth, '16
Secretary, J. A. C. Warner, '17
Treasurer, E. H. Francis, '16

Since its affiliation with the American Society the Local Branch has been of much greater value to the students, which has been shown by the increased interest taken in the meetings. All of the speakers have been men of eminence in their profession, whose words have much weight and authority.

The following men have been the speakers at meetings of the Student Branch during the last year:

Oct. 1.—"Experiments with Gasoline," Prof. Charles M. Allen.
Nov. 5.—"Refrigeration," Mr. F. L. Fairbanks, of the Quincy Cold Storage and Warehouse Co., of Boston.
Dec. 3.—"Inventions and the Patent System," Mr. Hartley W. Bartlett, Patent Attorney, Worcester.
Jan. 10.—"Water Power Question in the U. S.," Prof. George F. Swain of Harvard University.
Feb. 4.—"Modern Ordnance: Its Construction and Use," Major L. F. Hillman of the U. S. Army.
March 3.—"Automobile Engineering," Mr. Frank H. Trego, of the Knox Automobile Co., of Springfield.
May 5.—"Wire Rope Engineering," Mr. James F. Howe, '99, Wire Rope Engineer of the American Steel and Wire Co.



Worcester Polytechnic Institute Branch of the A. I. E. E.

OFFICERS

President, Richard M. Thackeray, '16
Vice-President, Harris E. Whiting, '16
Secretary, Clyde M. Whipple, '15
Executive Committee, Prof. H. B. Smith
A. B. R. Prouty, '14
E. L. Bragdon, '16
L. A. Gardner, '17

This past year has been a most beneficial one to the members of the Branch who have been fortunate in hearing the speakers at the different meetings. They have all been men high up in their profession, and the subjects which they have treated in their lectures have been selected to give the greatest good to all.

Oct. 15.—"Summer Experiences," { W. W. Spratt, '14, D. F. Miner, '15, A. H. Richardson, '16, H. E. Whiting, '16.

Nov. 19.—Ladies' Night. "Application of Electricity in the Home," Mr. Willard Hall of the W. E. & M. Co.

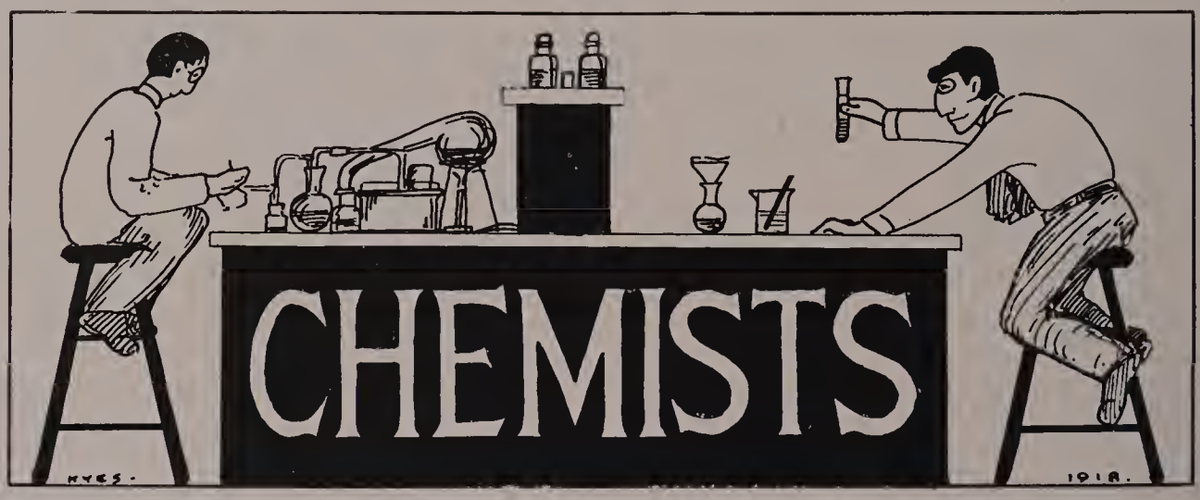
Dec. 17.—"Electrification of the Grand Central Terminal," Mr. Edwin B. Katte, Engineer in charge of electrification of the N. Y. C. & H. R. R.

Jan. 21.—"The Water Power Question of the U. S.," Prof. G. F. Swain of Harvard University.

Feb. 18.—"Electromagnets and Solenoids," Mr. C. E. Underhill, Chief Engineer Acme Wire Co.

March 17.—"The Connecticut River Power Transmission Company's System," Mr. W. R. Bell, '10, Chief Load Despatcher of the C. R. P. T. Co.

April 21.—"The Electrical Engineer and His Industry," Mr. Fred M. Feiker, '04, Editor-in-Chief, *Electrical World*.



OF THE WORCESTER POLYTECHNIC INSTITUTE

OFFICERS

President, P. H. WALKER, '16
Vice-President, R. K. PRINCE, '17
Secretary, W. B. SCOTT, '16
Treasurer, D. H. C. TULLOCH, '17

Executive Committee, J. C. WALKER, '16
C. A. PERKINS, '17
R. POWERS, '18

On November 7, 1904, the Worcester Chemical Club was organized for the purpose of presenting abstracts and discussions of papers of general interest, which are appearing from time to time in Chemical literature, as well as for the promotion of social intercourse amongst the Chemists of the city.

The meetings were generally held in the Salisbury Laboratories, although a few were held at Clark College.

The Club continued in this manner for six years. In October, 1910, a change was made, and the Club was taken over by the students at W. P. I. Meetings were held fortnightly; the speakers being chosen, for the most part, from the students themselves, but occasionally an outside lecturer was obtained.

During the past year a number of further modifications have been made. Membership in the Club is now open to the Faculty, Instructors and Students alike, with the idea of promoting fellowship amongst the members and stimulating an interest in the vital chemical problems of the day. The subjects taken up during the past year have been of mutual benefit to teaching force and student body, thereby bringing nearer to a realization the aims and object of the Club.

BANQUETS



~THE AFTERMATH~

Tech Banquet

STATE MUTUAL RESTAURANT, MAY 9TH, 1916

Toasts

TOASTMASTER

PROF. C. A. ADAMS

C. A. STONE

PRESIDENT I. N. HOLLIS

MR. HARRY WORCESTER SMITH

"A Sporting Tour in Ireland"

COMMITTEE

E. H. FRANCIS, '16, Chairman

H. F. BANAN, '16 — C. HOLLERITH, '17

D. M. GASKILL, '18 — J. H. HUMPHREYS, '19



FRESHMAN BANQUET

STATE MUTUAL RESTAURANT, MARCH 15, 1913

TOASTMASTER

DR. FREDERICK A. BONNET, JR.

Toasts

"What Shall I Do After I Graduate" DR. LEVI L. CONANT

"Class of 1916" E. L. MARBLE

"The Rope Pull" W. E. SHUMWAY

VIOLIN DUET

"Track" KARL HUGO

"Athletics" N. V. CRANE

VOCAL SELECTIONS BY SEXTET

"The New Gymnasium" PROF. ZELOTES W. COOMBS

SONGS AND CHEERS

HALFWAY THRU



STERLING INN, NOVEMBER 5, 1914

TOASTMASTER

HAROLD M. TOOMBS

Toasts

To Wachusett and Back With Commendable Regularity	CARL H. BURGESS
Jokes From the Rat-Hole	ELLSWORTH A. FRAZEE
Hers	CHARLES L. STORMS
Eugenics of Football	CEDRIC A. STONE
Beer Appetites	JOSEPH M. CHANDLER
As Seen Thru the Windshield	WILLIAM E. SHUMWAY

FOOTBALL BANQUET

STATE MUTUAL RESTAURANT, DECEMBER 16, 1915

For many years it has been intended to honor the football men after the close of the season with a banquet, followed by the presentation of "W's," but it remained for the present Athletic Association to accomplish it.

The principal speaker of the evening was "Reggie" Brown of Harvard, who gave an illustrated talk on the 1915 Harvard-Yale game. Professor Butterfield, Dr. Long and Dr. Allyn King Foster had a few words to say in recognition of the members of the 1915 Worcester Tech team, and the sport in general.

The success of this first football banquet showed conclusively that it should become an annual affair, and that the public award of insignia lends more dignity to the wearing of it.





1916 ROPE-PULL TEAM

The Rope Pull

And so it happens that the Class of 1916 has been enabled to record a new story in the annals of class histories. And that new story deals with the success of 1916 against its Sophomore and Freshman rivals in that annual contest, the rope-pull.

So now, listen well, gentle reader, lest you may be inclined to doubt that the story of the rope-pull contests of the Class of 1916 varies from that of any previous class.

The tale of the exploits of the Class of 1916 in its rope-pulls with its rivals may well be told in two chapters. The first chapter you may have heard many times, for up to the time of the advent of 1916 at W. P. I., the results of the contests had always been favorable to the Freshmen. And so it was with 1916, for, on a bright cool day in October, 1912, the forty strong men of the class marched to the shores of Institute Pond, and in spite of losing the choice of stamping grounds, did as was expected of them, namely, dragged their opponents, the Class of 1915, through the chilly waters of the pond. But of that feat little will be said, for since the history of rope-pulls at W. P. I. the Freshman class had always been the victor.

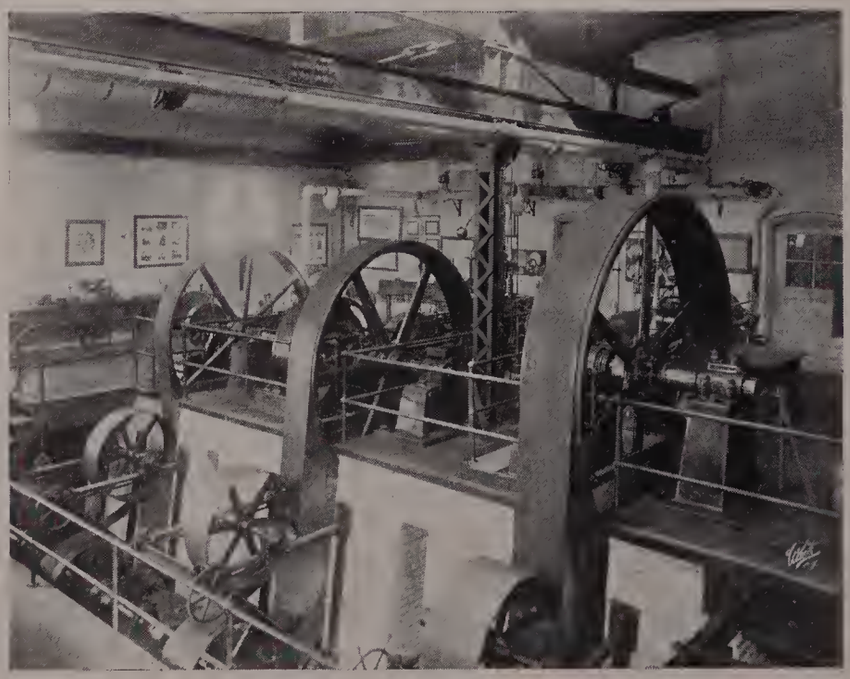
Now let us pass to the second chapter of this story. The time was one year later, and during that period the class had left the stage of its infancy at W. P. I., and as

everyone believed, was doomed to suffer the defeat hitherto always meted out to Sophomores. And everyone did well to believe that it would lose to 1917's team, for the strength of that team was obtained from forty husky men, and formidable enough to do battle with even the team 1916 possessed a year previous, for the latter's strength had been somewhat depleted during the lapse of the year. Nevertheless, undaunted by the general belief, the forty representatives of 1916 again marched to the shores of Institute Pond, and again lost the toss which would determine the choice of banks. Truly, it did seem that fate had then begun to work against 1916. But those persons who saw, as they believed, the result of that toss practically giving victory to the Freshmen, were doomed to disappointment, for from the start of the pulling, not an inch of ground was gained by 1917. It was a matter of only a few minutes before the forty huskies of 1917 came through the muddy and not too warm waters of the pond, as their counsellors, the members of the Class of 1915, had done before them.

And so that is the new story in class annals; new because 1916 has been the first class to be victorious in both of its rope-pull contests. To the forty men doing the actual work is due a great deal of thanks, but those same men can indeed thank heartily, every member of the Class of 1916, for it was the hearty co-operation of every member of the class which has enabled the result to be recorded in this manner.



ELECTRIC LABORATORY



POWER LABORATORY



HE TOOK HIS EASE
AND
HE GOT HIS "E's."

S.T. Williams

WORCESTER POLYTECHNIC INSTITUTE

WORCESTER, MASS.

Report of the standing of

T. O. Morrow

for the term ending Jan 22, 1916

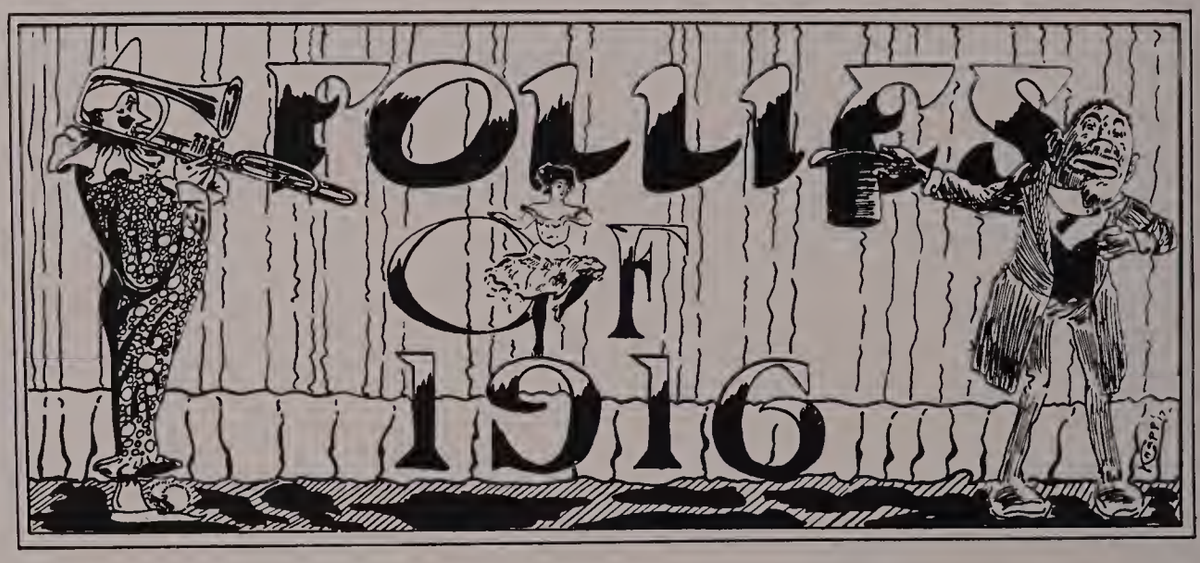
Chemistry 1	E
English 1	E
French 1	
German 1	
German 3	E
Mathematics 1	E
Mech Eng'g 1	E
Mech. Eng'g 20	E
Mech Eng'g 21	E

I. N. HOLLIS,
President

A=90-100%
B=80-89
C=70-79
D=60-69
E=45-59
F= 0-44.

(over)

1916 · AFTERMATH · 1916





Seeing Tech!!!

Here we are, ladies and gentlemen, seeing Worcester Tech for ten cents, a personally conducted tour, pointing out all the points of interest. All thru the Institute for a tenth of a dollar. Ready?



Starting from the corner of Institute and Boynton, *we shift into low*, and experience all the thrills of mountain climbing. No-no, lady, don't try to walk, let your feet drag and pull on the railing. That's right.

Now get your breath, we're at the top. Before you stands Boynton Hall, the oldest member of Tech's numerous Hall family. Here, my friends, words fail me, even as they have failed thousands who have entered her doors. Here is the lair of the Prof., the throne room and torture chambers of the Civil Monarchy, the breeding place of Uncivil Engineers, and—let's start at the top.

Up the winding stairs, one floor above where you get dizzy, we find the library. The library,—originally intended to keep books in, but it now lets them out. And so it is that time and custom alter all things. Enough of this, we have more interesting things to see. "Imagine yourself an elevator," and we are dropped swiftly to the first floor. Oh, wonder of wonders, bulletin boards, bulletin boards, and bull—wat's that, sir? Oh, that, sh-hh, not so loud. Behind these doors, destinies and men are made or unmade in a day. Here Prexy holds kindly councils, pretty typists hold jobs, and the treasury holds its own.

No, lady, we can't get in there, the door is locked. Yes, the Book and Supply Dept. I'll read you the card on the door: "Book and Supply Dept." By order of the Faculty, books retailing for less than five dollars will not be carried in stock. Open for business any time when we're here and you're not."

My assistant will now distribute the gas helmets and we'll descend to the lunch room. Careful on the stairs, we don't want any fatalities until we start eating. Now, ladies and gentlemen, if any of you are hungry Dan will be glad to—wat's that, Dan? Dan is very sorry, but while he had his back turned the cheese chased the dogs out the window; still if you're thirsty—all gone, Dan?—you'll find a faucet over there in the corner.

Now follow me out here to the rifle range. Pardon me, madam? Oh yes, it does

seem a trifle dark, but the team shoots just as well in the dark, and doesn't break so many electric lights. In actual practice, they hang one in front of the target, where it will be safe.

You have now seen Boynton Hall from attic to cellar. We've spent too much time here and we'll have to hurry a little. Follow me up the stairs, out the door, around the corner, and behold—the Washburn Shops. Kindly observe the weathervane, the arm and hammer. That reminds me, the 1916 Civils have designed a similar emblem for Boynton Hall, an arm wielding an axe.

The Shops pay dividends in the form of practical knowledge, and manage to make both ends meet by pulling hard enough on them. On the top floor the Freshmen eat sawdust and cover themselves with glory, glue, and paint. On the bottom floor, at the expense of much valuable raw material, those with mechanical intentions acquire machine shop instruction, skinned knuckles and grease. In the forge shop the student is heated to 1400 degrees and hardened. The skin is first removed from his hands and a new layer allowed to grow to a depth of several inches. The student has then reached the stage where he can pick up the white hot end of an iron without severe injury or excessive profanity. As the work progresses, he is permitted to hold a chisel *while one of his classmates attempts to hit his wrist* with a sledge hammer. We'll come to the foundry later.



Now turn the corner. The building on our right houses four boilers for making steam, all kinds of apparatus for using the steam and all kinds of students for misusing the apparatus.

On the left is the Mechanical Engineering building. Students recite all over the three upper floors, and offices are provided where instructors can stretch their legs and smoke when not actively engaged. Let's step down into the basement. What? Yes, down the stairs. What? Can't hear you, lady, that Franklin is going again. Follow me. There—shut the door and keep the smoke out.

Here is the Testing Laboratory. This is all destructive machinery, for jamming things together or pulling them apart. Follow me closely. The operator takes a harmless piece of steel, so, and places it in the machine. Then he stands off at a safe distance and watches it while it twists and writhes in agony. The reading on the scale tells just how much abuse the piece will stand before it loses consciousness and collapses. I agree with you, madam, it does seem brutal, but science demands it.

We will now have to pass thru the Automobile Lab. to the street. Take a long

breath and put your fingers over your ears. Ready—there, now you can breathe again. Yes, that was it, that cloud of smoke. Here is the Foundry. I am requested to take no visitors thru it today because they haven't had time to sweep the floor.

Over there to our right is the Salisbury Lab., chemistry and physics in layers. On the third floor the Freshman is given a taste of just what is coming to him if he decides to become a Chemist, and on the second floor the Sophomore, after a year of Physics, metaphorically shakes the hand of the immortal Shakspere, who said, "Throw Physic to the dogs; I'll none of it." At every turn one encounters laboratories and laboratories, apparatus and apparati, bottles, burners, beakers, things fearfully and wonderfully made, and all the what-not that goes to make the science mysterious and awe-inspiring. Over all this settles the deadly, heavy gas, concocted by Senior Chemists, compared with which a German gas attack is as harmless as the fragrance of violets.

We keep on down the road to the Electric Building, the home of electricity, where Junior Mechanics flirt with death, and volts and amperes chase each other along the wires. We enter at the barn door. The electric car is used for instruction only. The department every year turns out the best motormen and conductors in the world, every man full of flux, hysteresis and ambition. On our right, on our left, and all around us is the dancing balcony. Also on the upper right is located the White Studio Annex, fitted up at certain times of the year with a camera for taking Senior pictures, and a clever lady for picking their pockets.

The floor is dotted with chunks of potential power, any one of which can be made to function, by properly hitching it to a half-mile of wire, and striking the right combination on the switchboard. In the lecture room, the beginner whets his thirst for knowledge on dry facts and dry cells.



In the laboratory *he acquires a wholesome respect for 220 volts*, and finally he leaves the building with the knowledge that the north and south poles are not necessarily 8000 miles apart, and that third harmonics in one's wave form are not always fatal.

To complete the trip we must retrace our steps and view Tech's newest addition, the gymnasium. On the top floor is located all the necessary apparatus for increasing the biceps or breaking the neck. Above the floor is the board track and on the floor are mud tracks left by sight-seers. This door leads to the kitchen, adjacent to the squash court, where during the entire year, squashes

and other,—what's that, madam? No, that isn't a padded cell for Civils, that's the wrestling room.

The floor below lends itself to a variety of uses. Over there the Y. M. C. A. hopes to escape the gasoline vapor of the M. E. Lab. Here will be hung the trophies that proclaim Tech's athletic prowess. Here cards will announce that this is a gentleman's reading room, and that gentlemen must not put their feet on the table; and at this other end, clothes with a tendency to stray may be restrained in steel cells.

Shower baths will easily accommodate the Saturday night rush, and as soon as the water monopoly reduces the price the Christian Science Swimming Pool will be filled, and greasy mechanics will find solace in its waters.

This, ladies and gentlemen, completes the trip. I will now pass the hat and ask you to kick in. No, not the hat; I thank you.

Piggy: Now, Murphy, what unit is the diameter of this shaft measured in?
Murphy: Foot-pounds per minute.

Charlie (in hydraulics): We have no objections, in this department, to having the men use their brains.

"Rip" Adams (F. J.) wandering in his lecture on Transmission and Distribution Circuits: "It is sometimes possible to locate the buildings on poles."

HEROIC TREATMENT

"Pa" French: "Peterson, what is the cure for the 'bends'?"
"Pete" (after deep thought): "Inject compressed air into 'em."

All together now, boys. Two long Cy's and one "Long John."

FACULTY LICENSE

Dr. Pierce: "Now, what's the e. m. f. of your darn please connection?"
"Let's take a case that ain't got too much in it."
"Even a little e. m. f. will set up a Himmel of a current."

BETTER LATE THAN—

In many, many years from now,
When all the Electrics are gone,
And most of us someway, somehow,
Have passed through the pearly gate;
I'm willing to bet St. Peter will say,
Well, Bjorkman, I see you're still late.

THE NERVE OF SOME SENIORS

Prof.: Next time I'll give you a "prelim" on your month's work, but you may use your books.

Esty: Will it be hard?



"The goat that nobody got."

HOW DID YOU KNOW? DID SOMEONE TELL YOU?

Charlie A.: "Were any of you ever in swimming in the Great Salt Lake?"
Joe Craighead: "I was out there this summer, but I didn't need a bath."

Piggy—"I guess you have heard me tell the story about the farmer's hog—."

"Life is an Irish stew in which some of us are more carrots than others."

THE AFTERMATH'S FOOL QUESTION DEPARTMENT

Dear AFTERMATH Board: Your picture certainly doesn't flatter you any. You're the homeliest looking bunch we ever saw. What can we do about it?—Sixteen.

Dear Sixteen: Tear out the page. It's too late now, you should have thought of that when you elected us.

Dear Board: If you admit the above to be true, why do you run two pictures?—R. S. V. P.

Mr. R. S. V. P., Dear Sir: With all due respect to your esteemed expression of opinion, we humbly ask, who in blazes is running this book, you or we?—Respectfully, The Board.

Dear Editors: I have studied steam for two years, but have never seen a piece of entropy. Does the Institute own any?—Boiler Bill.

Dear "Boil": No, not now, the cat drank it.

Dear AFTERMATH Board: I am a Freshman and have two conditions. I failed to pass the makeups, and I also expect two more conditions this term. Shall I leave Tech?—Dubious.

Dear "Dub": You will.

Mr. Editor, Sir: Some irresponsible, morally deficient, member of your Board purloined one of my portraits, and you, either by intent or criminal negligence, permitted its publication. From the fact that my cognomen is inscribed beneath it, I conclude that you intend it to be a likeness of my face. The fact of the matter is, sir, that the features are horribly distorted, that the whole affair is a hideous caricature without the least semblance to the human visage, and that its unsanctioned use is a violation of those inalienable rights guaranteed a man by the Declaration of Independence. I demand Satisfaction.—I. M. Soer.

Dear I. M.: You shall have it. We had no idea that we had committed the crime you mention, and are willing to commit murder if necessary, in order to keep the matter out of the courts.

Dear AFTERMATH: How big does a man have to be to make Sigma Xi?—Bill K—

Dear Bill—So far as we know, there is no standard Sigma Size.

1916 · AFTERMATH · 1916

AFTERMATH Board, Dear Sirs: I have never been able to determine why the Seniors have clams at their clambake.—Fuller Doubt.

Dear Fuller: Shake; neither have we.

1916 AFTERMATH Board, GENTLEMEN: Will you kindly explain in just what manner molecular attraction affects the earth's rotation about the sun?—R. E. Search.

Dear Mr. Search: Your letter refers to us as gentlemen. Is this sarcasm or merely an error? Yours respectfully, The Board.



Oh see the cantilever! see it bend!
Behold the Senior Civil at the end!
He watched his step three years, discovered later
That at the end the danger's even greater.

Butterfield: "During our journey there was one place where the mosquitoes were so thick that when we swung a pint dipper over our heads we caught a quart of them."

Dingto: Why use the hair side of a belt next to the pulley?
Whiting: There is more friction.
Ding: Isn't there as much friction on the other side?
Whiting: No, there is no friction inside the creature.

Heard at a Board Meeting: "We need about one more good joke to each page."
Easy enough. Put in the Instructors' pictures.

Powers, '17: It has always been the custom in the future.

"Dutchy": "Oh, now Mr. Richardson, don't think. Every time you think you go and spoil it all.

"Spider" Roys: "I don't want you fellows to think that I am sitting up here as a tank of knowledge that can't be drained dry."

Heard on an Inspection Trip: "We use alternating D. C. here."

Prof. Haynes: Perkins, what does the cartoonist have to say about infant industries?

Perkins, '17: Why, I've seen a cartoon showing a small child labeled "war babies."



TO "JOHNNY"

Short and stocky and strong,
 Muscles with strength of a lion,
Fair and square and just,
 This worker of iron.

Respected, beloved and adored,
 His every act a "square deal."
With a countenance, beaming and joyful.
 That's "Johnny," worker of steel.

GRAND CIRCUS

AT CHRISTENING OF NEW GYM

On June 3, 1916

10.00 A. M. IN NEW SWIMMING POOL

High Dive for Form

Entries: "Piggy" Bird

Note: Tank will be refilled after each plunge.

10.15 A. M. ON ROOF OF GYM

Paper Weight Wrestling Match

JOE PHELON vs. BOBBY SWEETSER

To weigh in at 75 lbs.

10 A. M.—12 P. M. OUTDOORS

BULL-FEST, To a Finish

"DOC" PIERCE vs. "ANS" ST. JOHN

Subject: "Who I be, and why."

11.10 ORATION

Coombsie: Umbrellas and Nerve as National Defenses.

10.94

The Great Whiskey Tenors

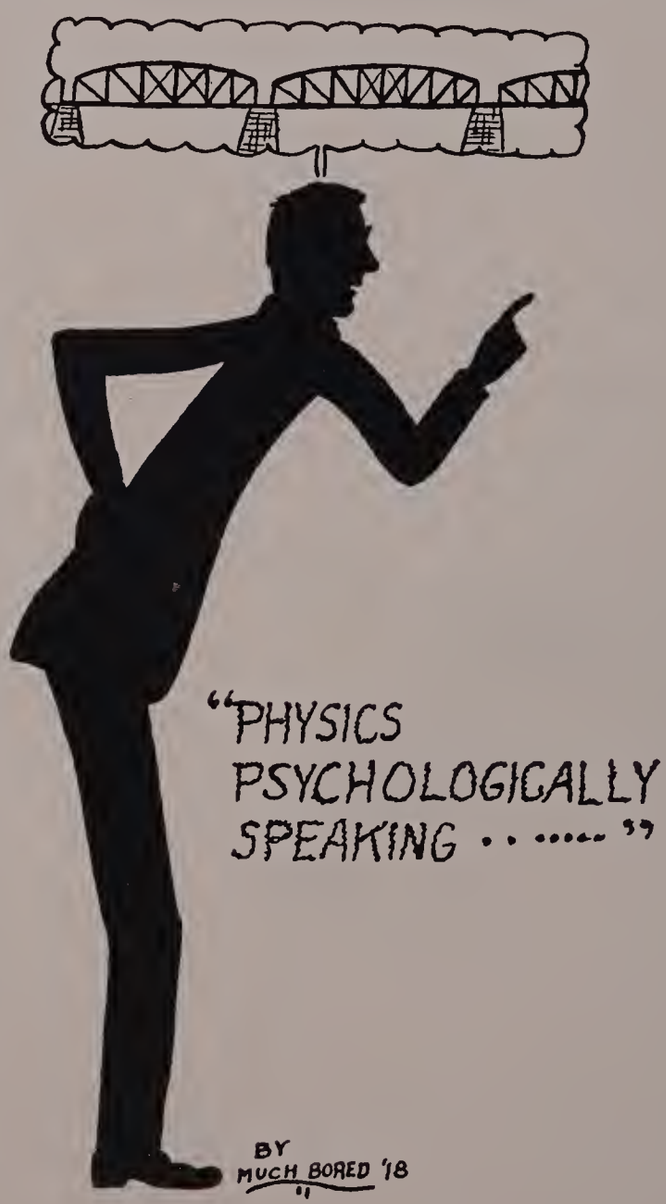
CALCOLUSO (L. L. C.)——POLYSCINAMICI (G. H. H.)

In a cold storage feature: "We may be old but gee whiz! ain't we tough."

HARD ON "C. D."

Salesman to Student in E. E. Lab.: Is Prof. Knight in? Student: Yes, there he is standing over there. (Pointing to where C. D. and John are standing.) Salesman: Er-er—but which one is the Professor?

Piggy: Did you ever see a locomotive's wheels slip and puff?



Gallup, in gas: Now suppose we plug the exhaust. In other words, constipate the engine.

SOUNDS EASY!!!

On "H. B.'s" exam paper in Business Organization: "Assume a wife and one child."



"OLD STUFF"

Student, in gas: In gas producers the gas is "sucked up—"

Davy: Sucked up!!! What do you mean "sucked up"? Didn't you get over that 20 years ago?

Ding (in kinematics): Banan, how large did you make those fillets on your gears?

Banan: No special size.

Ding: Well, how did you put them in, by your eye?

Banan: No, with a pair of compasses.

Prof. Bird (checking up the different books): "Let's be seated and see how we stand."



"Gray Castings"

"Pa" French: "These two brick have the same dimensions, but their shape is different. There are lots of men six feet three, but they're not all shaped like me."

CHARLIE'S OPINION OF ELECTRICS

"This experiment may be worthless, but anything that will keep your gang busy all afternoon is worth something."

Him: "With the single exception of movies my blind brother can appreciate any show just as well as I can."

He: "Oh, no, you're wrong."

Him: "Why am I?"

He: "Take him to the Worcester on any Thursday, Friday or Saturday."

When '16 Goes Away

O'er Boynton Hall there hangs a cloud
Of deep unlightened grief
The proud old trees have bowed their heads
And every drooping leaf
Speaks mutely of a sorrow great
Which shrouds that fatal day
When men are garbed in deepest black
AND SIXTEEN GOES AWAY.

Alas that such a blow must fall
On those who love us so;
That care-free and light-hearted Profs
Should all be plunged in woe
For in the M. E. Building
The entropy will stay
But PV curves won't be the same
WHEN SIXTEEN GOES AWAY.

Old Worcester Tech has never known
So sad a day as this.
Where are the men that can replace
Those sons she's soon to miss?
Who'll keep the engines in repair
And set the valves and play
With cranky indicator cards
WHEN SIXTEEN GOES AWAY?

'Tis said that no man is so great
But that when he is gone
Some other fellow can be found
To push his work along.
But where is there a Chemist
Immune to stinks like they
Who'll sniff their last of Salisbury Lab
WHEN SIXTEEN GOES AWAY?

The standard that "Sixteen" has set
Few mortal men can reach
Ah, what a hopeless task it is
To try and fill the breach.
For in the E. E. Building
In tiers the seats will stay
And wattmeters will meet no more
WHEN SIXTEEN GOES AWAY.

And Boynton Hall, which long has heard
The frantic Civil's cry,
Now saddened and inured by time
Looks on with kindly eye,
While quaking, trembling Civils
Get on their knees and pray
That from the handful that is left
SIXTEEN WILL GET AWAY.



"Electrics"

Prof.: How about using high speed steel for a razor?
"Stude": As a razor wouldn't heat up a carbon steel would be better.
Prof.: Suppose the fellow had a red beard?

1916 • AFTERMATH • 1916

TECH NEWS

Vol. X June 1, 1916 No. 0

PROF. FRENCH PASSES TEN CIVILS

On the evening previous to a final examination, Prof. French passed ten Civils as they were emerging from the Court movies. Such an act on the part of these men is practically suicidal. This is not the first case known to the faculty, in which a Civil has sought recreation in the evening, and it will be no surprise if the offenders are called upon to hand in their resignations.

B. A. READ BUYS NEW AUTO

The appearance yesterday of Prof. Read in a new Packard 8, has been the cause of much speculation. It is no news to many that Prof. Read has recently been approached by various museums throughout the country desiring to effect the purchase of his old car.

The successful bidder is rumored to be Barnum and Bailey.

SENIOR ELECTRIC RECEIVES SEVERE SHOCK

Just as he was disposing of his possessions, preparatory to leaving Tech forever, Mr. Ima Volt, '16, received word that he had passed three makeups.

Word from the hospital indicates that unless unforeseen complications set in, he has an even chance for recovery.

CHILD STRIKES DAVIE GALLUP

While proceeding leisurely along Salisbury St., Prof. Gallup's auto was run into by a child and the rear end of each slightly damaged.

The Professor states that he had slowed down to 60 miles an hour just previous to the accident and that the child's act was committed with malicious intent. In an interview given solely to a reporter of the NEWS, he stated that he would not press the case unless further damage to the car became evident.

SWIMMING POOL FILLED FOR FIRST TIME

The recent heavy rains have filled the swimming pool with muddy water. It has been discovered that instead of draining the water into the sewer, as was intended, the drain pipe functions in the opposite manner.

When interviewed about the matter, Prof. French denied indignantly that the design was faulty and was inclined to lay the trouble to the fact that the excessive rainfall had warped the hydraulic gradient.

FREE TUITION ADOPTED

At a recent Faculty Meeting, the faculty decided unanimously in favor of a resolution to provide free tuition for every student at the Institute who maintains an average of 99 and 44-100 in the prescribed courses of study.

This will not only assist many financially, but should have a wholesome effect on the scholarship of the entire school.

GRADUATES ALL OFFERED JOBS

Last week Mr. Will Bullum of the Paysum, Little Co., spoke to members of the graduating class concerning the employment which his firm offers to Tech graduates. Men are taken into the company on the apprenticeship basis, and if they prove capable of earning $1.50 a day, they are promoted at the end of ten years, or as fast as the existing opportunities permit. In addition to the munificent salary paid, the men also receive experience, which cannot be measured in dollars and cents. In the words of Mr. Bullum, "If you desire to gain experience, and are willing to work hard for little money, come with us."



David Gallup demonstrating his 1925 model.

THE "STINK POT" CHEMISTS' SATISFACTION

"War is h—l," said General Sherman
"Who in h—l wants war," say we,
We prefer the watchful waiting,
For 'tis great for chemistry.

As the summer is advancing,
And the coin comes rolling in,
We'll be sorry for the Civils,
Scratching 'round to raise some "tin."

The 'lectrics too, unlucky devils,
Chasing amps around a wire,
With "movies" once a week their limit,
On the profits from their hire.

So the Mechanics, greasy cusses,
With their lathes and high speed steels;
Wonder if, when the war is over,
They'll earn enough to buy their meals.

So laugh now at the "Stink Pot Chemist,"
It is your only chance, we say,
For soon you others will be saying—
"Lend me five till Saturday."

HOW SIMPLE, ABNER!

Prof. draws a square on the board, and says to Hickock: "Now, if the abscissa is time, and the ordinate is velocity, what is the area?"

Hickock: "The space inside the square."

He: "Some people are humorists without even knowing it."

It: "And when, for instance?"

He: "Here's a man advertising a lecture on the Panama Canal, with slides."

"Piggy"—The weight is going down. Now, which way is it going down?"

"Pa" French: "This needle, like most things in the Mechanical Department, is rusty."





"GETTING INTO THE PIPE."
With "CHARLIE" on the Holyoke Trip.

"Who's Who in 1916"

As ascertained from a canvass of the class.

	Mechanics	Civils	Chemists	Electrics
Most popular	Francis	Stone	Ricker	Bragdon
Most brilliant	H. Nutt	Comstock	Scott	Blair
Best natured	Farnsworth	Tucker	Collier	Peterson
Hardest worker	Burns	Eaton	Kienle	Delaney
Wittiest	Williams	Tucker	Jones	Murphy
Best athlete	Dunbar	Stone*	Ricker*	Banan*
Meekest	Brown	Perrin	Jones	Lamb
Laziest	Gifford	Morrison	J. C. Walker	Peterson
Handsomest	Wyman	Gorman	Ricker	Banan
Dude	Luke	Little	Berry	Hickock
Most versatile	Davis	Young	Murdick	Bragdon
Most practical	Ingraham	Beach	Jealous*	Craighead
Most theoretical	Williams	Eaton	Jones	Colburn
Best bluffer	Dunbar	Beach	Jealous	Whiting
Natural bull-heaver	Dunbar	Eaton	Jealous*	Whiting*
Luckiest in getting by	Manson	Beach	Brooks	Craighead*
Having biggest pull	H. Nutt	Beach	Kienle	Burgess
Greatest fusser	Knowles	Morrison*	Berry	Whiting
Noisiest	True*	Toombs	Brooks*	Craighead

* Unanimous

Professors

Most popular	Butterfield
Easiest rattled	Ewell
Hardest to bluff	French
Pleasantest	Bonnet
Brightest	Masius
Handsomest	Allen
Most sarcastic	Read
Most eccentric	Masius
Most difficult to recite to	Read
Easiest to recite to	Bird

Acknowledgments

We wish to take this opportunity to acknowledge the assistance accorded us by the following students, who by giving of their best have made possible the successful completion of this book:

Artists

H. S. Freeman, '17
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R. E. Heath, '19
S. W. Briggs, '19

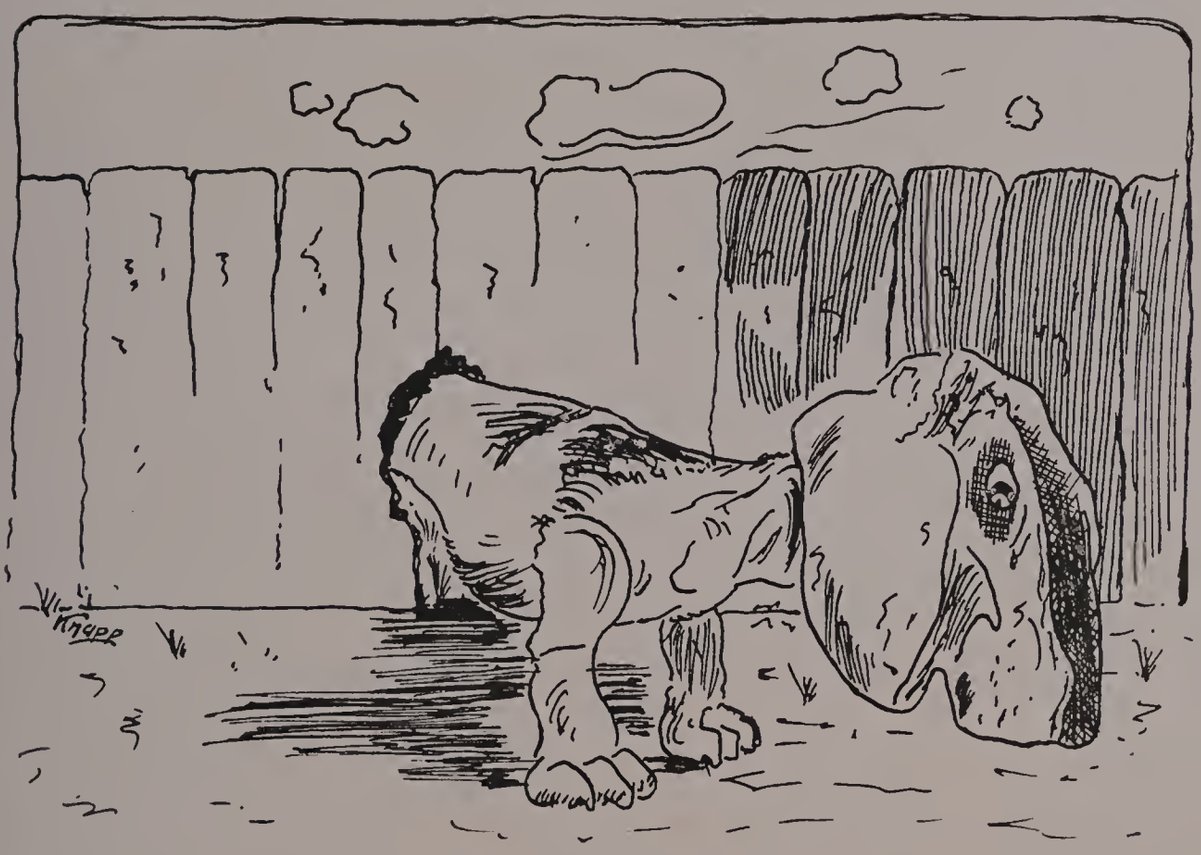
Photographers

C. Hollerith, '17
H. S. Beers, '18

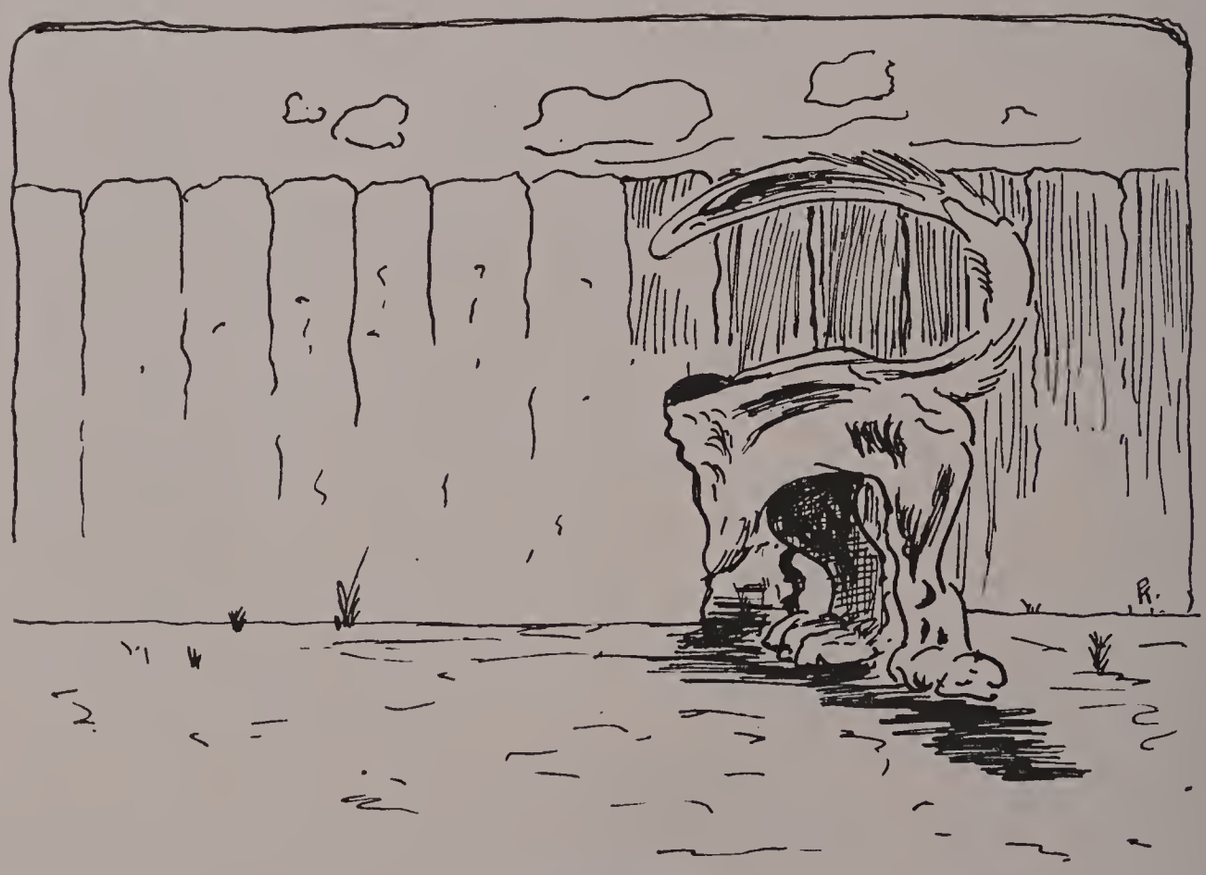
To all others who may have assisted the Board in any way we extend our heartfelt thanks, knowing that without their aid the Class-book of 1916 could never have been written.

The Board.

1916 · AFTERMATH · 1916



The Beginning of——



The End





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Convenient to Grand Central, Subway and
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Seniors, remember this in Freshman Class meeting:

Received, T. Kloss..... 50c
Received, T. Kloss..... 50c
Received, T. Kloss..... 50c
Received, T. Kloss..... 50c

And so on, *ad infinitum.*

Craighead, on inspection trip to Worcester Pressed Steel, speaking to workman: "What is that you are making?"

Workman: "Shock absorbers."

Craighead: "A. C. or D. C.?"

When you figure production time in seconds as it is figured in any grinding room, your search for a satisfactory grinding wheel is almost certain to end in the selection of

NORTON GRINDING WHEELS

We are constantly making Norton Alundum and Crystolon wheels more efficient for particular grinding operations. Greater production—better finish—lower costs—whatever your problem may be, our experience will help you.

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Leland - Gifford Company

WORCESTER, - MASSACHUSETTS

Machine Tools Crankshaft Finishing

SOMETHING WE MIGHT NOT HAVE PRINTED

Hungry John: What is the resultant of a couple?
Student: A couple.
H. J.: Yes, sometimes, when they're twins.

CAN THIS BE TRUE?

Seniors testing gas engine in M. E. Lab.

Davy (coming up): Say, what kind of a test do you fellows think you're running? Can't you see one cylinder is missing?

And those Electrics hunted all over the Lab after that cylinder.

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Kenney-Kennedy Co.

The Live Store **401-403 Main St., Worcester**

PORTRAIT PHOTOGRAPHER
BUSHONG
WORCESTER, MASS.

STUDIOS, 311 Main Street

Mistress: Goodness, Bridget, where is our 'phone?

Bridget: Mrs. Jones sent over, Mum, askin' fur the use av it, and I sint it over; but I had the divil av a toime gitting it off the wall, Mum.

IT'S ALL IN THE POINT OF VIEW

Definitions of Q. E. D.

"Charlie" Allen: Quite easily done.

"Doc" Conant: Quod eines dumkopf!

COATES Flexible Shafting



Everything in the flexible shaft line. It is made with a thorough understanding of requirements. You can use a drill, emery wheel, buff or scratch brush on the same machine.



A flexible-shaft portable tool is a necessity in the modern shop or foundry. A flexible shaft made on the Unit Link System, Forged from Chrome Vanadium Steel, makes the toughest kind of shaft. Tools all interchangeable.

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It teaches you the value of good clothes and the importance of making a good impression on those you meet in the best circles of college and business life.

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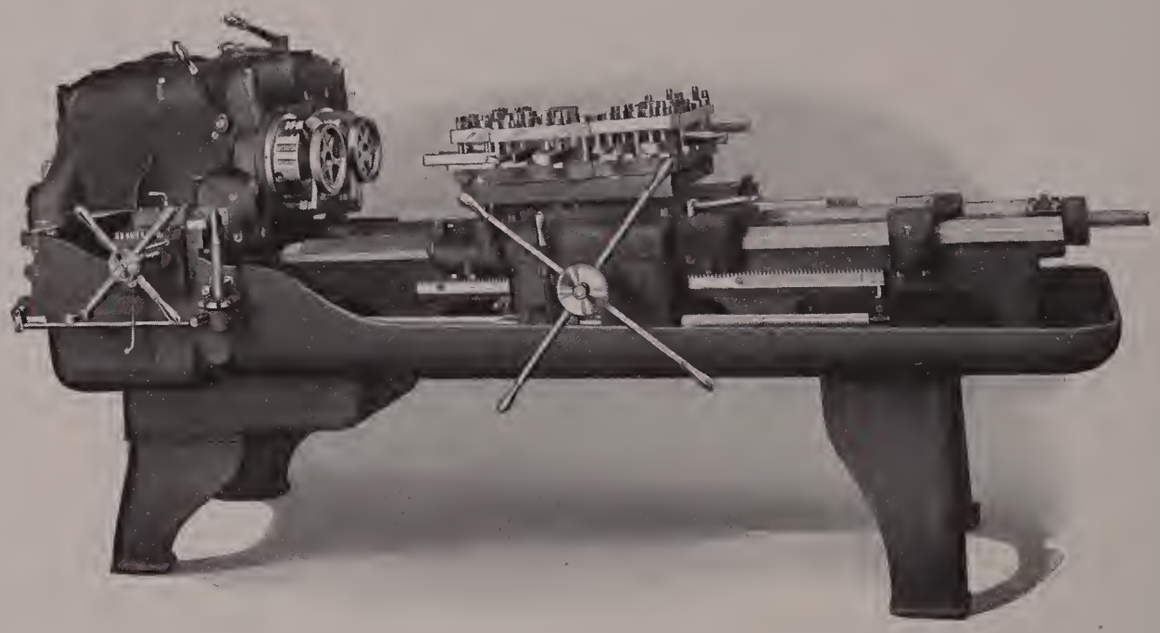
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If you make your drive strong enough, why not drive two spindles instead of one?

If you make your turret stiff enough, why not put on two sets of tools instead of one?

If the operator has to stop the machine to put in one piece, why not have him put in two instead?

If you have any desire to practically double your output per machine, per man and per dollar invested, why not get a Double Spindle Flat Turret Lathe for your chucking work?

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Phones Park 156—157

Duncan & Goodell Company

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Worcester :: Massachusetts

HE PROBABLY MEANT ALL RIGHT

Davy (explaining the action of a generator): This revolving armature generates current in the field.

Dr. Jennings to Abercrombie: That result would have been clearer to you had you worked it out.

Abbie: Oh, no doubt, no doubt—

Jennings: That is, er—er—it might have been.



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We manufacture and erect complete Fences of Iron or Wire for all purposes. We make and install window-guards, railings, fire escapes, machinery guards, tool room enclosures, elevator cabs, and a wide variety of iron and wire work.

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Fraternity and Class Stationery

Wedding Invitations and Calling Cards

WORKS—17TH ST. and LEHIGH AVE.

PHILADELPHIA, PA.

First Microbe: Heard you had a big party last night. Many there?

Second Microbe: Naw, only about three million.—*Princeton Tiger.*

Smitty (taking his watch out from under his pillow): Quarter of eight and no one has come to wake me yet. If they don't come soon I shall certainly be late for class.—*Lehigh Burr.*

Voice from Above: What's the matter, May, doesn't that young man know how to say good night?

Mary (thrilled): Um-m-m! I should say he does.

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Parlor Door Hangers
Rolling Store Ladders
Carrying Track Systems for
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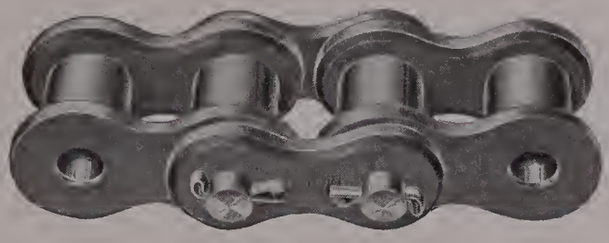


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For Auto Trucks



For Machine Drives

Chains and Sprockets for Commercial Cars Carried in Stock

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Baldwin Chain and Mfg. Co.

WORCESTER, MASS.

He: Why is a "girl" in the Tech Show like a Civil in Joe Phelon's course?
It: (the usual bite).
He: Because she couldn't get by without a make-up.

Biff: Two Civils were arrested yesterday for larceny.
Bang: Zat so.
Biff: Yeah. Fur taking readings off a transit.

Some people speak before they think—but a great deal oftener.

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Here's to the girl that helps you win,
To the girl that is frank and true.
To the girl that is kind, with thoughtful mind,
To her heart that is pure as the dew.

When your troubles are coming, black as night,
Rush 'em and tackle 'em low.
Work with a will and a might, but fight,
For the sake of the girl you know.

—Ex.

Bradford A. Gibson, President Wm. Shumway, Vice-President

F. B. Durfee, Treasurer

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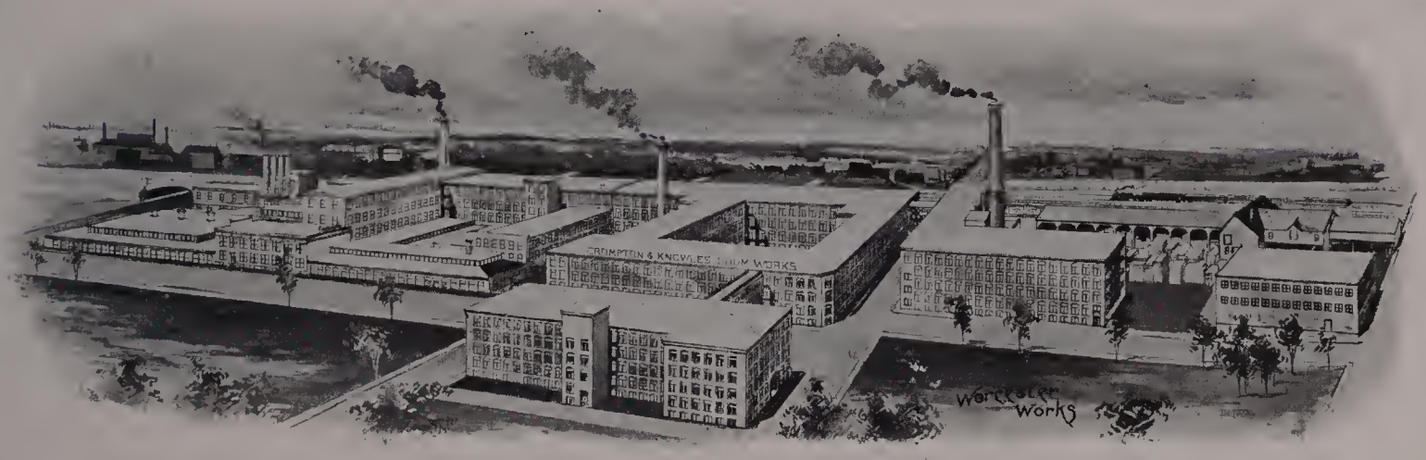
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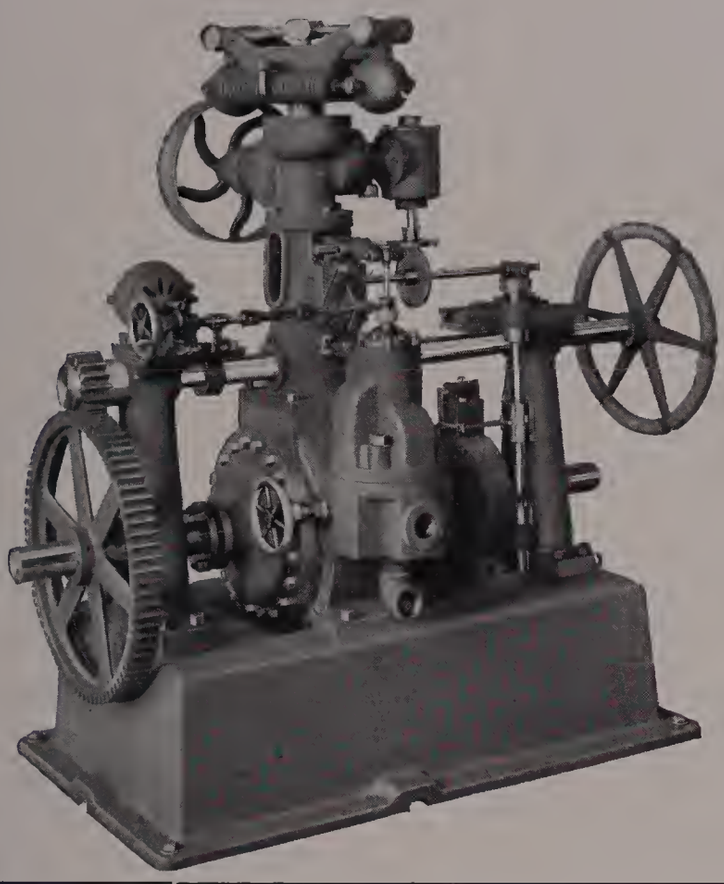


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WRITE FOR CATALOGUE

Holyoke Machine Co.

WORCESTER, MASS.

IT COULD ONLY HAPPEN TO THE CHEMISTS

Sandy (casting his eye over Dinny's weekly quiz): Is that a one-hour exam?

Dinny (indifferently): Yes.

Class: ???????

Sandy: What I asked and what I want to know is—do we have an hour or fifteen minutes for this exam?

Dinny (belligerently): It may take some people an hour, but I intended it for twenty minutes.

Sandy (ditto): Well, there is no call for you to get sarcastic about it.

Dinny (firmly): I answered the question in the same spirit in which it was asked, if there is any mistake, then there is occasion for apology.

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156 MAIN ST., Worcester, Mass.

ALPS—UP-TO-DATE.

Hubb: I have just read an account of two girls getting lost in the Alps in mid-winter.

Wiff: Horrible! Were they frozen to death?

Hubb: No, they warmed themselves on the mountain ranges.

Charles: Did you get arrested last night for stealing those 11 bottles of beer?

Algy: My word, no; the judge said there wasn't enough to make a case.—Ex.

Oh, I say, who was here to see you last night?

Only Myrtle, Father.

Well, tell Myrtle she left her pipe on the piano.

Rastus: Looky here, Boss. I done scoured and scoured dese pants of yourn and Ah can't get those spots out a tall.

Boss: Have you tried ammonia?

Rastus: No sah, Boss, no sah, Ah ain't tried 'em on me, but I'se sure dey'll fit. Yes sah.

Mrs. Wide Awake,
Mrs. Economic,
Mrs. Much Pleased,
Mrs. Sensible and
Mrs. Satisfied,
Neighbors of Yours

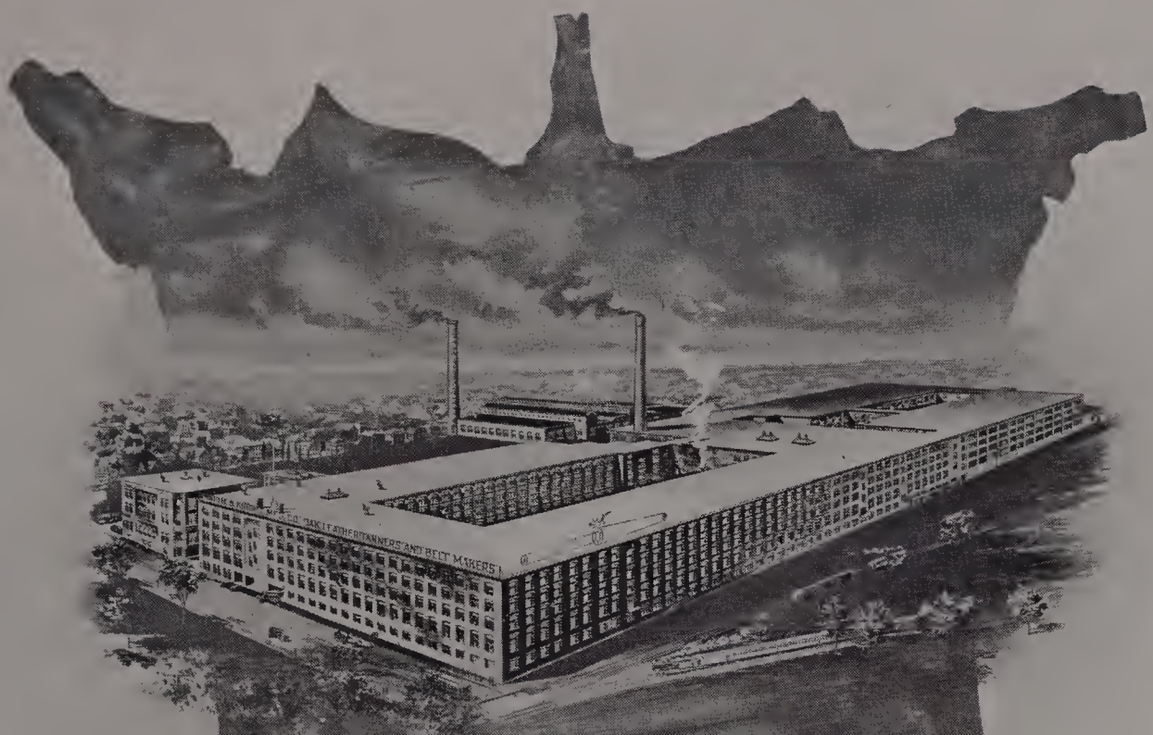
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Selling Agents { The Graton & Knight Mfg. Co. of Texas, Dallas, Texas
The Graton & Knight Mfg. Co. of Wisconsin, Milwaukee, Wis.

She: I never could see much in these shadow skirts to cause so much comment.

He: Ah, yes, my dear, but you don't look at them in the right light.

WITHOUT A DOUBT.

Wife: I noticed your coat on the hall stand this morning is covered with mud.

Husband: Yes, it dropped into the gutter as I was coming home last night.

Wife: And were you in it?

Compliments of

F. E. Powers Company

"Live Coal Dealers"

WORCESTER, MASSACHUSETTS

Wesby's Bindery



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BOOKBINDING
SINCE 1845

Graphic Arts Building

25 FOSTER STREET

WORCESTER, :: MASS.

LIES WE HAVE ALL HEARD.

"I can't wear silk stockings; my skin is so tender that they hurt my feet."

"I think your little boy is wonderful! So different from other children."

"Oh, no, I wouldn't listen to other people talking on our party-wire!"

"It is such a treat, after the big hotels, to eat home cooking."

"I enjoyed your sermon so much."

"If I can't say anything good about anybody, I don't say anything."

"I always wear my shoes a size too large."

"I don't want you to make any fuss for me. Treat me as one of the family."

"Yes, she comes to the house. But the things she makes look just like those made by the highest-priced dressmakers."

"I take a cold plunge every morning."

"No, I can't subscribe to your war fund, we're giving so much this year to local charity."

By Carolyn Wells

White Studio

1546-48 Broadway, New York
(Between 45th and 46th Streets, in Times Square)
and 557 Fifth Avenue

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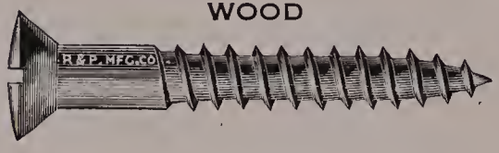


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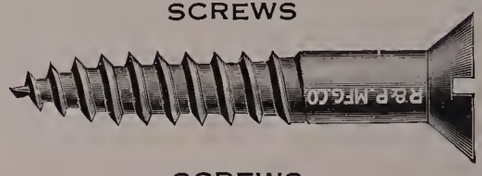
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ALL DESCRIPTIONS OF

WOOD SCREWS

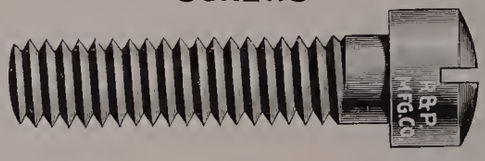






MACHINE SCREWS





CAP AND SET SCREWS



COLD FORGED THUMB SCREWS AND WING NUTS





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RIVETS AND BURRS

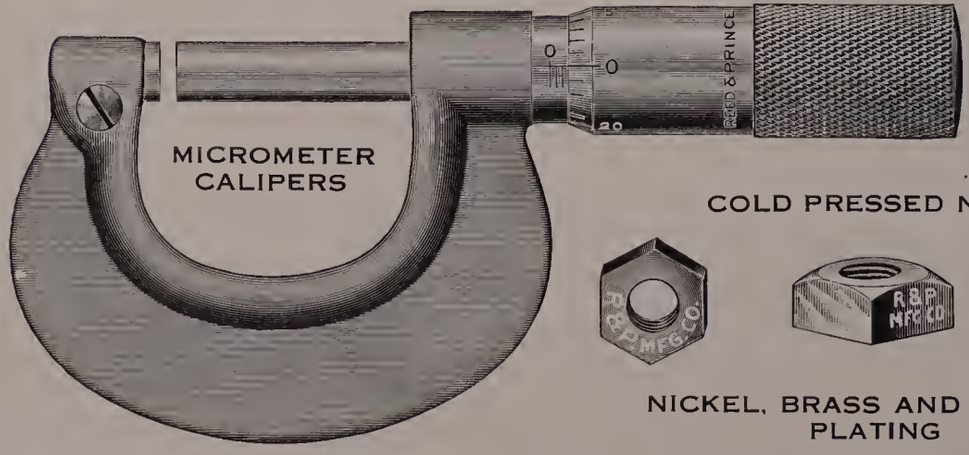


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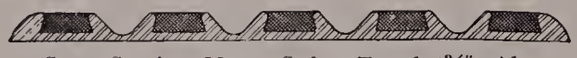
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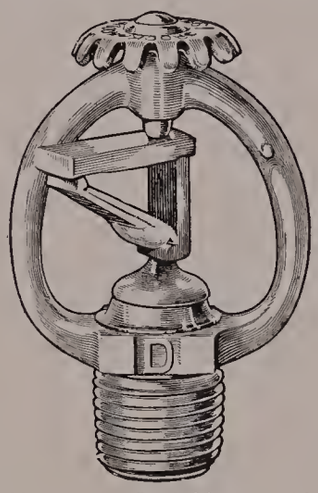
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Rockwood Sprinkler Company

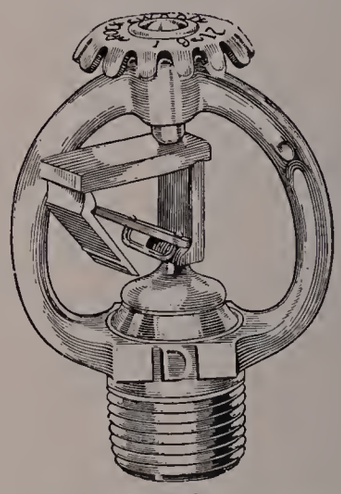
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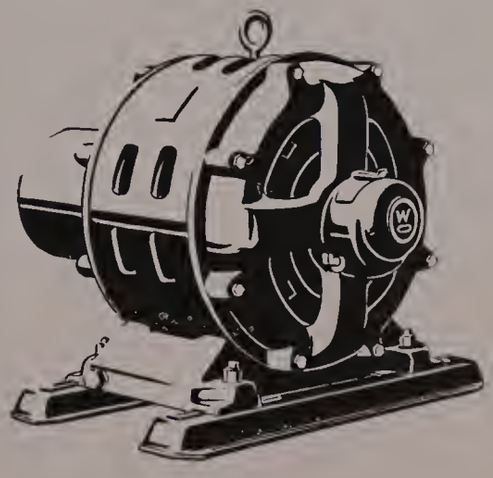
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